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# COLETERATA

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# 4. COELENTERATA

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Section 14, Protochordata

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*Blackfordia* p. 321, *virginica* p. 321 fig., [NAUMOV].

*Bonneiella* p. 286, key to spp. p. 287, *laevigata* **sp. n.** p. 287 fig. Ochotsk and Bering Seas, *enterovillosa* p. 288 fig., *superba* p. 289 fig., *uschakovi* p. 290 fig., *ingens* p. 291 fig., *regia* p. 292 fig., *grandis* p. 293 fig., *extensa* **sp. n.** p. 294 fig. Ochotsk Sea, [NAUMOV].

Bonneiellidae p. 286, [NAUMOV].

*Botrynema* p. 564, *brucei* p. 564 fig., [NAUMOV].

*Bougainvillia* key to spp. p. 197, *superciliaris* p. 197 fig., *principis* p. 198 fig., [NAUMOV].

Bougainvillidae [sic], key to genera p. 182, [NAUMOV].

†*Burgundia steinerae* **sp. n.** p. 228 fig. Upper Jurassic Arabia, HUDSON.—*B. circoporoides* p. 242 fig., *corrugata* p. 243 fig., **sp. n.** Jurassic Abyssinia, ZUFFARDI-COMERCI.

*Calicella* [as *Calycella* [sic]] *syrynga* p. 220, LÉLOUP.—*C.* p. 306, *syrynga* p. 307 fig., [NAUMOV].

*Calyopsis* p. 192, key to spp. p. 193, *birulai* p. 193 fig., *nematophora* p. 194 fig., [NAUMOV].

*Campamalaria asymetrica* p. 173 fig., KERNEIS.—*C. speciosa*, *verticillata* p. 221, *volubilis* p. 221 fig., *marginata* p. 226, *noliformis* p. 227, *africana* p. 231 fig., *eurycalyx* p. 231 fig., *gaussica* p. 232 fig., LÉLOUP.—*C.* p. 249, key to spp. p. 249, *johnstoni* p. 250 fig., *volubilis* p. 251 fig.,

*groenlandica* p. 252 fig., *bigena* sp. n. p. 253 fig. Bering Sea, *speciosa* p. 255 fig., *everta* p. 256 fig., *compressa* p. 256 fig., *platycarpa* p. 257 fig., *integra* p. 258 fig., *integriformis* p. 259 fig., but *chinensis* a sp. of *Verticillina* (q.v.) p. 270, [NAUMOV].

Campanulariidae, key to genera p. 248, [NAUMOV].

*Campanulina chilensis* p. 231, LELOUP.—C. p. 309, key to spp. p. 310, *quadrata* p. 310 fig., *lacerata* p. 311 fig., [NAUMOV].

Campanulinidae, key to genera p. 295, [NAUMOV].

Campanulininae p. 296, [NAUMOV].

†*Cassinostroma* gen. n. p. 51, type sp. (by original designation) *kippferi* sp. n. p. 51 fig. Triassic Austria, FLÜGEL, E., Neues Jb. Geol. Paläont. Monats. 1960 2 1960.

†*Caunopora* p. 454, GALLOWAY.

*Chelophyes appendiculata* p. 26 fig., CERVIGÓN.

*Chlorohydra viridissima* p. 317, HYMAN.—C. p. 556, *viridissima* p. 557 fig., [NAUMOV].

*Cladocarpus*, key to spp. p. 483, *holmi* p. 484 fig., *poutllessii* p. 485 fig., *formosus* p. 485 fig., [NAUMOV].

†*Cladocoropsis* sp. p. 238, HUDSON.

*Cladonema radiatum* p. 388 fig., BRINCKMANN & PETERSEN.—C. p. 225, key to spp. p. 225, *radiatum* p. 226 fig., *myersi* p. 227 fig., [NAUMOV].

Cladonemidae p. 224, key to genera p. 225, [NAUMOV].

†*Clathrocoelona* pp. 419, 451, *abeona* p. 468 fig., GALLOWAY.—C. *abeona* p. 634 fig., *restricta* p. 634 fig., GALLOWAY (1).

†*Clathrodictyidae* pp. 417, 432, key to genera p. 432, GALLOWAY.

†*Clathrodictyon* [as *Clatrodiction* [sic]] *tschussowense* p. 72 fig., [ERMAKOVA (1)].—C. pp. 417, 433, *sejanicum* possibly a sp. of *Anostylostoma* p. 390, *vesiculosum* pp. 463, 466 fig., GALLOWAY.—C. *variolaris* Grabau not Rosen is *Stictostoma anderssonense* p. 88, GALLOWAY & EHLERS.—C. *confertum* p. 150 fig., KOSTIĆ-PODGORSKA.

†*Clathrostoma* gen. n. (fam. Actinostromidae) p. 132, type sp. (by original designation) *lekense* sp. n. p. 132 Silurian U.S.S.R., *stolbergense* sp. n. p. 132 fig. L. Carboniferous U.S.S.R., *cracoviensis* p. 133, [YAVORSKI] Paleont. Zhurn. 1960 4 1960.

*Clava multicornis* p. 179 fig., [NAUMOV].

†*Clauidictyon* pp. 418, 441, *columnare* p. 467 fig., GALLOWAY.—C. p. 73, *gegomicense* Galloway p. 73 fig., *millcreekense* p. 103 fig., spp. n. M. Devonian Michigan, GALLOWAY & EHLERS.

†*Coenostroma* see *Stomatopora*.

*Corbulifera* gen. n. (fam. Plumulariidae) p. 489, type sp. (by original designation) *Plumularia macgillivrayi* p. 490 fig. Philippines, etc., [NAUMOV] Opred. Faune S.S.S.R. Izdav. zool. Inst. Akad. Nauk S.S.S.R. 70 1960.

*Cordylophora lacustris* p. 316 fig., HYMAN.—C. *caspia* p. 180 fig., [NAUMOV].—C. *caspia* p. 151 fig., RIOJA.

*Corymorpha* p. 207, key to spp. p. 208, *nulans* p. 208 fig., *aurata* p. 210 fig., *tentaculata* p. 211 fig., *flammea* p. 211 fig., *glacialis* p. 212 fig., *groenlandica* p. 213 fig., [NAUMOV].

*Coryne* a senior synonym of *Staurocoryne* pp. 142, 143, *uchidai* p. 141, sp. p. 143, HIRAI (1).—C. p. 232, key to spp. p. 233, *tubulosa* p. 233 fig., *princeps* p. 236 fig., *loveni* p. 236 fig., *pusilla* p. 237 fig., [NAUMOV].—

*C. gemmifera* p. 109 fig., *ophiogaster* p. 111, *fuscicola* a senior synonym of *Staurocoryne fuliformis* p. 111, *C. a* a senior synonym of *Dipurena* p. 111, and of *Actigia* and *Linvillea* p. 112, PICARD.

Corynidae p. 232, key to genera p. 232, [NAUMOV].—C. discussed p. 111, PICARD.

*Craspedacusta sowerbii* pp. 72, 96, HADŽI.—C. *sowerbii* p. 316 fig., HYMAN.—C. *kuoi* sp. n. p. 201 fig. Taiwan, SHIEH & WANG.

*Crossota* p. 558, key to spp. p. 558, *brunnea* p. 558 fig., *alba* p. 559 fig., [NAUMOV].

*Cryptohelia*, key to spp. p. 546, *pubica* p. 546 fig., *trophostega* p. 548 fig., [NAUMOV].

*Cryptolaria*, key to spp. p. 277, *profunda* sp. n. p. 277 fig. Bering Sea, *flabellum* p. 278 fig., *borealis* p. 279 fig., [NAUMOV].

†*Cryptophragmus* p. 417, 426, *antiquatus* p. 465 fig., GALLOWAY.

*Cunina* p. 567, *globosa* p. 567 fig., [NAUMOV].

*Cunoclantha* p. 568, *tenella* p. 568 fig., [NAUMOV].

*Cuspidella* p. 299, key to spp. p. 300, *mertensii* p. 300 fig., *grandis* p. 302 fig., *polydiademata* p. 302 fig., [NAUMOV].

†*Cystostroma* gen. n. (fam. Labechiidae) pp. 416, 421, type sp. (by original designation) *vermontense* p. 421 fig., *simplex* p. 421 fig., spp. n. Ordovician U.S.A., Galloway & St. Jean in GALLOWAY Bull. Amer. Paleont. 37 164 1957.

†*Dehornella* discussed p. 187, *hydractinoides* p. 190, *choffati* p. 190 fig., *crustans* sp. n. p. 191 fig. Upper Jurassic Israel, *omanensis* sp. n. p. 191 fig. Upper Jurassic Arabia, *harrarensis* p. 194 fig., aff. *harrarensis* p. 196, HUDSON (2).

†*Dendrostoma* pp. 418, 443, *oculatum* pp. 444, 467 fig., *comulus* p. 44, GALLOWAY.—D. p. 69, *petoskeyense* sp. n. p. 69 fig., *fibrosus* Galloway sp. n. p. 71 fig., M. Devonian Michigan, GALLOWAY & EHLERS.

†*Dermatostroma* pp. 417, 430, *papillatum* p. 466 fig., GALLOWAY.

†*Diapora* a combination of a stomatoporeid and a tabulate coral p. 455, GALLOWAY.

*Dicoryne conferta* p. 200 fig., [NAUMOV].

*Dictyocladium flabellum* p. 345 and *reiculata* p. 346 are *Sertularella*, [NAUMOV].

†*Dictyostroma* not a hydrozoan but a tabulate coral p. 455, GALLOWAY.

*Diphasia* p. 331, key to spp. p. 332, *rosacea* p. 332 fig., *fallax* p. 333 fig., [NAUMOV].

*Diphyes dispar* p. 39 fig., CERVIGÓN.

*Dipurena reesi* p. 386 fig., BRINCKMANN & PETERSEN.—D. pp. 142, 143, HIRAI (1).—D. a junior synonym of *Coryne* p. 111, PICARD.

†*Disparistromaria* gen. n. (fam. Actinostromariidae) p. 439, type sp. (by original designation) *tenuissima* sp. n. p. 439 fig. L. Cretaceous Switzerland, SCHNORF Ecl. geol. helv. 53 1 1960.

*Distichopora irregularis* p. 427, BOSCHMA (2).—D. p. 521, *borealis* p. 521 fig., [NAUMOV].—D. *violacea* p. 43, UTMOMI.

*Dynamena cornicina*, *crissoides* p. 228, *tumida* p. 228 fig., LELOUP.—D. p. 329, key to spp. p. 329, *pumila* p. 329 fig., *operculata* p. 330 fig., [NAUMOV].—D. *tubuliformis* p. 2 fig., YAMADA.

- Eirene* p. 319, *indicans* p. 320 fig., [NAUMOV].  
*Eleutheria* p. 229, *dichotoma* p. 230 fig., [NAUMOV].  
 †*Ellipsactinia* *ellipsoidea*, *tyrrhenica*, *caprense*, *polypora* p. 310, POLJAK.  
 †*Emscheria intermedia* **sp. n.** p. 427 fig., var. *tenuis* var. **n.** p. 430 fig., U. Cretaceous S. France. SCHNORF.  
 †*Epistromatopora* see *Stromatopora*.  
*Errina* p. 514, key to spp. p. 514, *porifera* **sp. n.** p. 514 fig., Ochotsk Sea, antarctica p. 515 fig., [NAUMOV].  
*Errinopora pourtalesii* p. 428 fig., *stylifera* p. 428 fig., BOSCHMA (2).—*E.*, key to spp. p. 516, *stylifera* p. 516 fig., *latifundata* **sp. n.** p. 517 fig. Ochotsk Sea, *nanneca* p. 518 fig., *zaryncha* p. 519 fig., *interocans* **sp. n.** p. 520 fig. Sea of Japan, etc., [NAUMOV].  
*Eucheilota duodecimalis* young stage p. 395 fig., VANNUCCI (2).  
*Eudendriidae* p. 243, [NAUMOV].  
*Eudendrium carneum*, *ramosum* p. 225, LELOUP.—*E.* p. 243, key to spp. p. 243, *capillare* p. 244 fig., *rameum* p. 244 fig., *annulatum* p. 246 fig., *ramosum* p. 246 fig., [NAUMOV].  
*Eudoxides spiralis* p. 38 fig., CERVIGÓN.  
*Eulafoecinae subfam. n.* (of Lafoecidae) p. 272, [NAUMOV] Opred. Faune S.S.S.R. Izdav. zool. Inst. Akad. Nauk S.S.S.R. 70 1960.  
*Eutima mira* p. 9, VANNUCCI.  
 †*Ferestromatopora* pp. 418, 446, *krupennikovii* p. 469 fig., *tyrrenensis* p. 469 fig., GALLOWAY.—*F.* p. 627, *jacquesensis* **sp. n.** p. 627 fig. Devonian N.W. Canada, GALLOWAY (1).  
*Filellum serpens* p. 220, LELOUP.—*F.* p. 280, *serpens* p. 281 fig., *serpens tubiforme* p. 281 fig., [NAUMOV].  
*Galettia chuni* p. 34 fig., CERVIGÓN.  
*Gemmaria*, key to spp. p. 238, *costata* p. 238 fig., *globosa* p. 240 fig., [NAUMOV].  
*Georginella diaphana* a junior synonym of *Hydranthea aloysii* pp. 47, 85, HADŽI.  
 †*Gerronostroma* pp. 417, 438, *elegans* pp. 464, 467 fig., GALLOWAY.  
*Geryonia proboscoidalis* p. 6, VANNUCCI.  
*Gonionemus vertens* p. 261 fig., LEENTVAAR.—*G.* p. 492, *vertens murbachi* p. 492 fig., *vertens vertens* p. 494 fig., [NAUMOV].  
*Grammaria* p. 281, key to spp. p. 282, *stentor* p. 282 fig., *abietina* p. 283 fig., *immersa immersa* p. 284 fig., *immersa gracilis* p. 285 fig., [NAUMOV].  
*Gyropora* **gen. n.** (fam. Stylasteridae) p. 423, type sp. (by original designation) *africana* **sp. n.** South Africa, BOSCHMA Proc. Akad. Wet. Amst. 63 C 4 1960.  
*Halammohydra* discussed pp. 56, 90, HADŽI.  
*Haleciidae* p. 442, [NAUMOV].  
*Halecium articulatum* p. 218, *delicatulum* p. 218 fig., *tenellum* pp. 220, 230, *pusillum* p. 226 fig., *beani* p. 230, LELOUP.—*H.* p. 442, key to spp. p. 442, *mirabile* p. 444 fig., *curvicaule* p. 444 fig., *speciosum* p. 446 fig., *halecium* p. 446 fig., *beani* p. 447 fig., *beringi* **sp. n.** p. 449 fig. Bering Sea, *brashnikovii* p. 449 fig., *ochotense* p. 450 fig., *reversum* p. 451 fig., *corrugatum* p. 452 fig., *labrosum* p. 454 fig., *tenellum* p. 454 fig., *marsupiale* p. 455 fig., *birulai* p. 456 fig., *muricatum* p. 456 fig., *groenlandicum* p. 457 fig., [NAUMOV].  
*Halicreas*, key to spp. p. 563, *minimum* p. 563 fig., *bigelovi* p. 563 fig., [NAUMOV].  
*Halopsis* p. 318, *ocellata* p. 319 fig., [NAUMOV].  
*Hebella striata* p. 231, LELOUP.  
 †*Heptastylopsis* see *Spongiomorpha*.  
 †*Hermastroma* pp. 419, 451, *schlütteri* p. 468 fig., fig., GALLOWAY.—*H. episcopale* p. 635 fig., GALLOWAY (1).  
 †*Heterastridium* p. 130, *conglobatum conglobatum* p. 127 fig., FLÜGEL, E. (2).  
*Heterotheca* **sp. n.** p. 4 fig., YAMADA.  
*Homoenema* p. 562, *platygonum* p. 562 fig., [NAUMOV].  
*Hybocodon prolifer* p. 184 fig., UCHIDA & NAGAO.  
*Hydra fusca* p. 461 fig., *attenuata* p. 461 fig., BRIEN.—*H.* key to N. American spp. p. 317, *americana* p. 317 fig., *hymenae* p. 318 fig., *oligactis* p. 318 fig., *pseudoligactis* p. 318 fig., *carnea* p. 320 fig., *utahensis* p. 320 fig., *cauliculata* p. 321 fig., *littoralis* p. 321 fig., *canadensis* p. 322 fig., *oregona* p. 322, HYMAN.—*Hydra* p. 551, key to spp. p. 551, *oligactis* p. 553 fig., *braueri* p. 553 fig., *baicalensis* p. 554 fig., *vulgaris* p. 554 fig., *attenuata* p. 555 fig., *circumcincta* p. 555 fig., *oxycnida* p. 556 fig., *oxycnidoides* p. 556 fig., [NAUMOV].—*H.* p. 19 fig., SCHWEGLER.—*H. grisea* p. 129 fig., STAGNI.  
*Hydractinia* p. 200, key to spp. p. 201, *carnea* p. 201 fig., *allmani* p. 202 fig., *carica* p. 203 fig., *monocarpa* p. 204 fig., *echinata* p. 204 fig., *serata* p. 205 fig., [NAUMOV].  
*Hydrallmania falcata* p. 223, LELOUP.—*H.* p. 401, *falcata* p. 402 fig., [NAUMOV].  
*Hydranthea aloysii* a senior synonym of *Georginella diaphana* pp. 47, 85, HADŽI.  
*Hydrida* p. 550, [NAUMOV].  
*Hydridae* p. 551, key to genera p. 551, [NAUMOV].  
*Hydrocorallia* p. 512, [NAUMOV].  
*Hydrotena salenskii* pp. 65, 93, HADŽI.  
*Hydrolariidae* p. 504, [NAUMOV].  
*Hymeninae* p. 317, [NAUMOV].  
*Idiella pristis* p. 229, LELOUP.  
*Idiellana* (fam. Sertulariidae) **nom. n.** for *Idiella* Stechow (non Brauer & Bergenstamm) p. 234, COTTON & GODFREY Rec. S. Austral. Mus. 7 2 1942.  
 †*Idiostroma* pp. 418, 443, *caespitosum* p. 464 fig., *roemeri* p. 467 fig., but *crassum* Lecompte and *roemeri* irregularis Lecompte are *Stachyodes* p. 444, and *comulus* and *oculatus* are *Dendrostoma* p. 444, GALLOWAY.—*I.* p. 62, *caespitosum* p. 63 fig. (lectotype chosen p. 66), *roemeri* p. 67 fig., *nattressi* Grabau = *Amphipora nattressi* + *A. ramosa* p. 99, GALLOWAY & EHLERS.  
 †*Idiostromatidae* pp. 418, 440, key to genera p. 440, GALLOWAY.  
 †*Kentlandia* not a hydrozoan but the coral *Paleoalveolites* [sic] p. 453, GALLOWAY.  
*Kirchenpaueria curvata* p. 236, LELOUP.  
 †*Kitikamia* not a hydrozoan but the coral *Alveolites* p. 455, GALLOWAY.  
*Koellikerina fasciculata* a senior synonym of *Thamnostoma cidaritis*, sp. Browne and *russellii* p. 473 fig., PETERSEN & VANNUCCI.  
 †*Labachia cystilosa* **sp. n.** p. 72 fig. U. Devonian Russia, aff. *devonica* p. 73 fig., [ERMAKOVA (1)].—*L.* pp. 417, 427, *conferta* pp. 463, 465 fig., GALLOWAY.

- †*Labechiella* pp. 417, 428, *serotina* p. 465 fig., GALLOWAY.
- †*Labechiidae* pp. 416, 419, key to genera p. 420, GALLOWAY.
- Lafaea dumosa* p. 221, *gracillima* p. 231, LELOUP.—*L.* p. 272, key to spp. p. 273, *pocillum* p. 273 fig., *grandis grandis* p. 274 fig., *grandis ochotensis* p. 275 fig., *fruticosa* p. 275 fig., *dumosa* p. 276 fig., [NAUMOV].
- Lafociidae* p. 271, key to genera p. 272, [NAUMOV].
- Lafocina* p. 313, key to spp. p. 314, *tenuis* p. 314 fig., *maxima* p. 314 fig., [NAUMOV].
- †*Lamellata wöhneri* p. 19 fig., FLÜGEL, E.
- Laomedea dichotoma*, *hyalina*, *longissima* p. 222, *bicuspidata*, *calceolifera* p. 227, LELOUP.
- Lar* p. 504, *flavicirratu* p. 504 fig., [NAUMOV].
- Leusia subtilis* p. 32 fig., *campanella* p. 43 fig., CERVIGÓN.
- Lictorella* p. 285, *pinnata* p. 285 fig., [NAUMOV].
- Limnocyda victorae* p. 18, MIRÉ, GILLET & PLESSIS.—*L. victorae* p. 613 fig., GREEN.—*L. victorae* p. 217 fig., BEADLE, THOMAS & POOLE.
- Limnomedusae* p. 491, [NAUMOV].
- Linvillea* a junior synonym of *Coryne* p. 112, PICARD.
- Liriopse tetraphylla* p. 4, VANNUCCI.
- †*Lophiostroma* pp. 418, 439, *schmidti* p. 467 fig., GALLOWAY.
- Meator* p. 190, *rubatra* p. 190 fig., *depressa* **sp. n.** p. 191 fig. Bering and Ochotse Seas, [NAUMOV].
- Melicerinae* p. 323, [NAUMOV].
- Melicerium* p. 324, *campanula* p. 324 fig., [NAUMOV].
- Merga tregoubovii* **sp. n.** p. 333 fig. S. France, PICARD (1).—*M. tergestina* p. 393 fig., VANNUCCI (3).—*M. tergestina* p. 320 fig., VANNUCCI & YAMADA.
- Microhydra sowerbii* p. 509 fig., [NAUMOV].
- Microhydridae* p. 509, [NAUMOV].
- †*Milleporella fasciculata tenue* **subsp. n.** p. 200 fig. U. Jurassic Japan, HASHIMOTO (1).
- †*Milleporidiidae* p. 716, HUDSON (1).
- †*Milleporidium* cf. *lusicanicum* p. 238, HUDSON.—*M.* p. 716, *remeti* p. 716 fig., *lusicanicum* p. 719, but *somaliensis* a sp. of *Steinera* p. 727, and *libanoticum* a sp. of *Sporadoporidium* p. 729, HUDSON (1).—*M. kitamiensis* **sp. n.** p. 201 fig. U. Jurassic Japan, sp. 1 p. 201 fig., sp. 2 p. 201 fig., HASHIMOTO (1).—*M. somaliense* p. 234, ZUFFARDI-COMERCI.
- Moerisia*, key to spp. p. 498, *maotica* p. 499 fig., *pallasi* p. 501 fig., [NAUMOV].
- Moerisiidae* p. 497, [NAUMOV].
- Monobrachiidae* p. 506, [NAUMOV].
- Monobrachium* p. 507, *parasitum* p. 507 fig., [NAUMOV].
- Monotheca posidoniae* p. 173 fig., KERNEIS.—*M. obliqua* p. 3 fig., YAMADA.
- Muggiaea kochi* p. 28 fig., *atlantica* pp. 30, 39 fig., CERVIGÓN.
- †*Myrioporina* discussed p. 729, HUDSON (1).
- Myriothela* p. 241, *phrygia* p. 241 fig., [NAUMOV].
- Myriothelidae* p. 241, [NAUMOV].
- Narcomedusae* p. 566, [NAUMOV].
- Nemertesia cymodocea* p. 236, LELOUP.—*N.* p. 474, *antennina* p. 474 fig., [NAUMOV].
- Niobia dendrotenaculata* p. 334 fig., BRINCKMANN.
- Nuditheca* p. 478, key to spp. p. 479, *dalli* p. 479 fig., *dogieli* p. 479 fig., *tetrandra* **sp. n.** p. 480 fig. Bering Sea, [NAUMOV].
- Obelia*, key to spp. p. 260, *geniculata* p. 261 fig., *longissima* p. 263 fig., *loveni* p. 264 fig., *gracilis* p. 265 fig., *flexuosa* p. 266 fig., *exigua* p. 267 fig., *angulata* p. 267 fig., *gelatinosa* p. 268 fig., [NAUMOV].
- Olindias inexpectata* p. 496 fig., *phosphorica* p. 497 fig., [NAUMOV].
- Olindiidae* p. 491, key to genera p. 492, [NAUMOV].
- Opercularella* p. 308, *nana* p. 308 fig., [NAUMOV].
- Oplorhiza* p. 312, *diaphragmata* **sp. n.** p. 312 fig. Ochotsk Sea, [NAUMOV].
- Pandea* p. 189, *rubra* p. 190 fig., [NAUMOV].
- Pantachogon* p. 561, *haeckeli* p. 561 fig., [NAUMOV].
- †*Parallelopora* pp. 418, 450, *nodulata* p. 464 fig., *ostiolata* p. 468 fig., GALLOWAY.—*P.* p. 632, *ostiolata* p. 632 fig., *pellucida* p. 633 fig., GALLOWAY (1).—*P.* p. 57, *winchelli* **sp. n.** p. 57 fig. M. Devonian Michigan, GALLOWAY & EHLERS.—*P. ostiolata* p. 247 fig., *pulchra* p. 247 fig., ST. JEAN.
- †*Paramphipora* pp. 418, 441, *mirabilis* p. 470 fig., GALLOWAY.
- †*Parastromatopora* p. 235, *libani* p. 235 fig., HUDSON.—*P. jurensis* **sp. n.** p. 731 fig. U. Jurassic S.E. France, SCHNORF (2).—*P.* see *Stromatopora*.
- †*Parastromatoporidae* p. 187, HUDSON (2).
- Pennariidae*, key to genera p. 222, [NAUMOV].
- Pentathea* p. 476, *angulifera* p. 477 fig., [NAUMOV].
- Perigonimus*, key to spp. p. 183, *yoldia-arcticae* p. 184 fig., *vesicarius* p. 185 fig., *abyssi* p. 186 fig., *multicirratu* p. 187 fig., *breviconis* p. 188 fig., *roseus* p. 188 fig., [NAUMOV].
- Physalia physalis* p. 158 fig., LANE (1).—*P. physalis* p. 369 fig., MACKIE (1).—*P. physalis* p. 303 fig., TOTTEN.
- Plotocnide* p. 221, *borealis* p. 221 fig., [NAUMOV].
- Plumularia margareta* p. 230, LELOUP.—*P.* p. 461, key to spp. p. 461, *microtheca* **sp. n.** p. 462 fig. Kurile Islands, etc., *magellanica moneroti* **subsp. n.** p. 462 fig. Tartar Strait, *fragilis* p. 463 fig., *linkoi* **sp. n.** p. 465 fig. Black Sea, *setacea* p. 465 fig., *fūlicaulis* p. 466 fig., *halcioides* p. 467 fig., *macgillivrayi* the type sp. of *Corbulifera* p. 490 fig., [NAUMOV].—*P. setacea* p. 4 fig., YAMADA.
- Plumulariidae* p. 459, key to genera p. 460, [NAUMOV].
- Polymertesia* p. 473, *gracillima* p. 473 fig., [NAUMOV].
- Polyorchis* p. 549, *karafutoensis* p. 549 fig., [NAUMOV].
- †*Promillepora* p. 720, *perinquieri* lectotype chosen p. 720 fig., *kurnubi* **sp. n.** p. 721 fig. U. Jurassic Israel, *dowillei* p. 722, HUDSON (1).—*P. perinquieri* p. 233 fig., ZUFFARDI-COMERCI.
- †*Protodipleurosoma wardi* p. 380, GLAESSNER.
- Protohydra* p. 550, *leuckarti* p. 550 fig., [NAUMOV].
- Protohydridae* p. 550, [NAUMOV].
- †*Pseudolabechia* pp. 417, 429, *granulata* p. 466 fig., GALLOWAY.
- †*Pseudostyloclytton* pp. 416, 424, *poshanensis* p. 425 fig., *kayi* **sp. n.** p. 425 fig. Ordovician U.S.A., Galloway & St. Jean in GALLOWAY.



- Psychogastria* p. 565, *polaris* p. 565 fig., [NAUMOV].  
*Psychogastriidae* p. 565, [NAUMOV].  
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*Rhopalonema velatum* p. 6, VANNUCCI.  
†*Rosenella* pp. 416, 424, *macrocytis* p. 465 fig., GALLOWAY.  
†*Rosenellina* a synonym of *Cryptophragmus* p. 427, GALLOWAY.  
*Sarsia* a senior synonym of *Syncoryne* and *Stauridiosarsia* p. 143, sp. p. 141 fig., *tubulosa* p. 143, HIRAI (1).—*S. eximia* p. 4 fig., SANTOS PINTOS.  
*Schizotricha*, key to spp. p. 468, *variabilis* p. 469 fig., *divergens* sp. n. p. 469 fig. Bering Sea, *pacificola* sp. n. p. 470 fig. Kurile Islands, *gracilis* sp. n. p. 471 fig. Ochotsk Sea, etc., *polaris* sp. n. p. 472 fig. Spitzbergen, [NAUMOV].  
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*Sertulariidae* p. 325, key to genera p. 326, [NAUMOV].  
†*Shugraia zuffardiae* p. 237, cf. *arabica* p. 238 fig., HUDSON.—*S.* p. 728, HUDSON (1).  
*Silicularia bilabiata* p. 232, LÉLOUP.  
†*Sinodictyon* pp. 417, 425, *columnare* p. 465 fig., GALLOWAY.  
*Solmundella* p. 570, *bitentaculata* p. 571 fig., [NAUMOV].—*S. bitentaculata* p. 8, VANNUCCI.  
†*Sphaeractinia dichotoma* p. 310, POLJAK.  
†*Sphaeractinoidea* p. 456, GALLOWAY.  
†*Spongioromorpha* (*Heptastylopsis*) *gibbosa* var. *titonica* var. n. p. 309 fig. U. Jurassic Yugoslavia, POLJAK.  
†*Sporadoporiidum* discussed, *libanoticum* p. 729, HUDSON (1).  
†*Stachyodes* p. 360, *verticillata* p. 365 fig., *radiata* p. 368 fig., *caespitosa* [as *coespitosa* [sic]] p. 370 fig., *paralleloporoides* p. 371 fig., *costulata* p. 372 fig., *stromatoporoides* sp. n. pp. 373, 381 fig., *lagowiensis* sp. n. pp. 375, 382 fig., Devonian Poland, GOGOLCZYK.—*S.* pp. 418, 444, *crassum*, *roemeri irregularis* p. 444, *verticillata* p. 467 fig., GALLOWAY.—*S.* p. 101, *paralleloporoides* p. 102 fig., GALLOWAY & EHLERS.  
*Statoplea* p. 475, [NAUMOV].  
*Stauridia* p. 222, *producta* p. 223 fig., [NAUMOV].  
*Stauridiosarsia* a junior synonym of *Sarsia* p. 143, *producta* p. 142, sp. 143, HIRAI (1).  
*Staurocoryne* a junior synonym of *Coryne* pp. 142, 143, *filiformis* p. 141, HIRAI (1).  
*Stegopoma*, key to spp. p. 315, *fastigiatum* p. 315 fig., *plicatile* p. 316 fig., [NAUMOV].  
†*Steinerella* discussed p. 723 footnote, HUDSON (1).—*S.* p. 729, SCHNORF (2).  
†*Steineria* gen. n. (fam. Milleporidiidae) p. 722, type sp. (by original designation) *Stromatopora romanica* p. 723 fig. U. Jurassic Roumania, *somaliensis* p. 727 fig., HUDSON J. Paleont. 30 3 1956.  
†*Stictostroma* pp. 417, 435, *mamiliferum* pp. 435, 462, 466 fig., *mcgraini* p. 435 fig., GALLOWAY.—*S. eriensis* a sp. of *Stromatoporella* p. 222, GALLOWAY (1).—*S.* p. 84, *anomalous* p. 85 fig. Michigan, *anderdonense* p. 88 fig. Ontario Canada, spp. n. M. Devonian, GALLOWAY & EHLERS.—*S.* sp. [= *kayi* (MS. emendation by author in separate)] p. 245 fig., *obliteratum* p. 245 fig., ST. JEAN.  
†*Stromatoceryum* pp. 417, 431, *rugosum* p. 431 fig., *amsterdamense* sp. n. p. 432 fig. Ordovician U.S.A., GALLOWAY & ST. JEAN in GALLOWAY.  
†*Stromatomorpha rhaetica* p. 18 fig., FLÜGEL, E.  
†*Stromatopora undata* p. 76 fig., [ERMAKOVA (1)].—*S.* pp. 418, 447, *concentrica* p. 468 fig., *hiipschii* p. 468 fig., *laminosa* p. 468 fig., *divergens* p. 469 fig., GALLOWAY.—*S.* cf. *hiipschi* p. 627 fig., *arcuata* sp. n. p. 628 fig. Devonian N.W. Canada, cf. *maculata* p. 629 fig., *planulata* ? [sic] p. 629 fig., *concomamillata* a sp. of *Taleastroma* p. 630, *pellucida* a sp. of *Parallelopora* p. 633, GALLOWAY (1).—*S.* p. 50, *monticulifera* p. 51 fig., *pustulifera* p. 54 fig., *gallowayi* p. 90 fig., *nux* a sp. of *Trupetostroma* p. 59, *caespitosum* pars = *Dendrostoma petoskeyense* p. 69, *S.* (*Coenostroma*) *pustulosum* Grabau pars = *Syringostroma aurora* p. 92, GALLOWAY & EHLERS.—*S.* *arabidensis* p. 236, aff. *arabidensis* p. 237, HUDSON.—*S. douvillei* a sp. of *Promillepora* p. 722, *romanica* the type sp. of *Steineria* p. 722, HUDSON (1).—*S. harvarensis* a sp. of *Dehornella* p. 194, HUDSON (2).—*S.* sp. p. 152 fig., KOSTIĆ-PODGORSKA.—*S. laminosa* p. 247 fig., *pulchra* p. 247 fig., ST. JEAN.—*S. douvillei* p. 235 fig., *gortanii* sp. n. p. 236 fig. Jurassic Abyssinia, *chauffati* p. 238 fig., ZUFFARDI-COMERCI.—*S.* (*Parastromatopora*) sp. p. 199 fig., *S.* (*Epistromatopora*?) sp. p. 199 fig., HASHIMOTO (1).  
†*Stromatoporella* pp. 417, 436, *granulata* pp. 463, 466 fig., *eriensis* pp. 463, 467 fig., *huroniensis* p. 469 fig., GALLOWAY.—*S. eriensis* p. 222 fig., *zamaniensis* p. 623 fig., GALLOWAY (1).—*S.* p. 75, *elevata* p. 75 fig., *muldakensis* Galloway sp. n. p. 77 fig. M. Devonian Michigan, GALLOWAY & EHLERS.—*S. eifeliensis* p. 245 fig., *granulata* p. 245 fig., *basilii* p. 246 fig., *kirki* p. 246 fig., ST. JEAN.  
†*Stromatoporidae* pp. 418, 445, key to genera p. 445, GALLOWAY.  
†*Stromatoparina* p. 236, HUDSON.—*S.* discussed p. 183, diagnosed p. 184, *torquasti* p. 185 fig., HUDSON (2).  
†*Stromatoporinidae* p. 184, HUDSON (2).  
†*Stromatoporoidea* p. 413, GALLOWAY.  
*Stylantheca porphyra* p. 426 fig., BOSCHMA (2).

*Stylaster*, key to spp. p. 541, *elassotomus* p. 542 fig., *gemmascens alascanus* p. 542 fig., *eximius* p. 544 fig., *cancellatus* p. 546 fig., [NAUMOV].

*Stylasteridae* p. 513, key to genera p. 513, [NAUMOV].

†*Stylodictyon* p. 449, GALLOWAY.

*Sulculeolaria quadridentata* or *quadrivalvis* p. 43 fig., CERVIGÓN.

*Syncoryne* a junior synonym of *Sarsia* pp. 142, 143, *nipponica* p. 142, HIRAI (1).

†*Synthetostroma* pp. 419, 452, *actinostromoides* p. 468 fig., GALLOWAY.

†*Syringostroma* pp. 418, 448, *superdensum* p. 468 fig., *radicatum* p. 468 fig., GALLOWAY.—*S.* p. 631, *sanduskyense* p. 631 fig., GALLOWAY (1).—*S.* p. 92, *aurora* p. 92 fig., *aurorilla* p. 93 fig., *sherzeri* p. 95 fig., GALLOWAY & EHLERS.—*S.* sp. pp. 148, 152 fig., KOSTIĆ-PODGORSKA.—*S. vesiculosum* p. 246 fig., *densum* p. 246 fig., St. JEAN.

†*Taleastroma* **gen. n.** (fam. Stromatoporidae) pp. 418, 448, type sp. (by original designation) *Stromatopora cumingsi* p. 468 fig. M. Devonian U.S.A., *pachytextum*, *cooperi*, *concomamillatum*, *magnamamillatum* p. 448, GALLOWAY Bull. Amer. Paleont. 37 164 1957.—*T.* p. 630, *lenzi* **sp. n.** p. 630 fig., *concomamillata* p. 630 fig., *vitreum* **sp. n.** p. 631 fig., Devonian N.W. Canada, GALLOWAY (1).—*T. cooperi* p. 247 fig., *cumingsi* p. 247 fig., *pachytexta* p. 247 fig., St. JEAN.

*Tamarisca* p. 327, *tamarisca* p. 328 fig., [NAUMOV].

*Tetraplatia* see Scyphozoa.

*Tetrapoma* p. 308, *quadridentata* p. 308 fig., [NAUMOV].

*Thamnostoma cidaritis*, sp. Browne and russellii are synonyms of *Koellikerina fasciculata* p. 473, PETERSEN & VANNUCCI.

*Thuiaria thuya* p. 224, *fabricii* p. 225, LELOUP.—*T.* p. 403, key to spp. p. 403, *carica* p. 407 fig., *articulata* p. 408 fig., *barentsi* **sp. n.** p. 409 fig. Barents Sea, *cupressoides* p. 410 fig., *derbeki* p. 411 fig., *involuta* **sp. n.** p. 412 fig. Kurile Islands, *excepticea* p. 413 fig., *subthuya* p. 414 fig., *hippuris* p. 416 fig., *laxa* p. 416 fig., *thuya* p. 417 fig., *nivea* p. 419 fig., *uschakovi* **sp. n.** p. 420 fig. Kara Sea, etc., *sachalinii* p. 421 fig., *alternihecka* p. 422 fig., *invicica* **sp. n.** p. 423 fig. Ochotsk Sea, *triseriatis* p. 423 fig., *cedrina* p. 424 fig., *pinnia* **sp. n.** p. 425 fig. Kurile Islands, *hortlaubi* p. 426 fig., *breiffussi* p. 427 fig., *obsoleta* p. 428 fig., *arctica* p. 429 fig., *zachai* p. 429 fig., *tetrastrata* **sp. n.** p. 430 fig. Ochotsk Sea and Sea of Japan, *mereschkovskii* p. 431 fig., *lebedi lebedi* **sp. n. et subsp. n.** p. 431 fig. Kurile Islands, *decemserialis* p. 433 fig., *acutiloba* p. 434 fig., *kudlini* **sp. n.** p. 435 fig. Ochotsk Sea and Sea of Japan, *cornigera* p. 436 fig., *alternans* p. 437 fig., *coronifera* p. 438 fig., *cylindrica* p. 439 fig., *gonorhiza* p. 441 fig., [NAUMOV].

*Thyrosophyloides* p. 326, *biformis* p. 326 fig., [NAUMOV].

*Tiaropsis* p. 303, *multicirrata* p. 303 fig., [NAUMOV].

†*Tienodictyon* discussed, *zonatum* probably Mesozoic (not Devonian) p. 456, GALLOWAY.

*Tima* p. 305, *sachalinensis* p. 305 fig., [NAUMOV].

†*Tosastroma yabei* **sp. n.** p. 200 fig. U. Jurassic Japan, HASHIMOTO (1).—*T.* p. 729, SCHNORF (2).

Trachylida, key to suborders p. 557, [NAUMOV].

Trachymedusae, key to families p. 557, [NAUMOV].

Trachynemidae p. 557, key to genera p. 558, [NAUMOV].

†*Trupetostroma* pp. 418, 439, *warreni* pp. 464, 467 fig., GALLOWAY.—*T.* p. 624, *warreni* p. 625 fig., *iozeansis* p. 625 fig., *porosum* p. 626 fig., *mailleuxi* p. 626 fig., *coalescens* p. 626 fig., GALLOWAY (1).—*T.* p. 58, *nux* p. 59 fig., GALLOWAY & EHLERS.

*Tubularia* p. 214, key to spp. p. 214, *prolifer* p. 215 fig., *christinae* p. 217 fig., *simplex* p. 218 fig., *indivisa* p. 219 fig., *larynx* p. 221 fig., [NAUMOV].

Tubulariidae p. 206, key to genera p. 207, [NAUMOV].

†*Tubuloparietes* **gen. n.** (fam. Milleporidiidae) p. 430, type sp. (by original designation) *constans* p. 432 fig., *simplex* p. 435 fig., **spp. n.** U. Cretaceous S. France, SCHNORF Eclog. geol. Helvet. 53 1 1960.

†*Velumbrella* **gen. n.** (Trachymedusae or near Limnomedusae) pp. 338, 344, 345, type sp. (by original designation) p. 337 *czarnockii* **sp. n.** pp. 339, 344, 345 fig. L. Cambrian Poland, STASIŃSKA Acta palaeont. polon. 5 3 1960.

*Verticillina* **gen. n.** (fam. Campanulariidae) p. 269, type sp. (by original designation) *Sertularia verticillata* p. 269 fig. p. 337 *czarnockii* **sp. n.** pp. 339, 344, 345 fig. L. Cambrian Poland, STASIŃSKA Acta palaeont. polon. 5 3 1960.

*Willia stellata* p. 5 fig., SANTOS PINTOS.

†*Yezoactinia* **gen. n.** p. 25, type sp. (by original designation) *shotometsuensis* **sp. n.** p. 26 fig. ? Jurassic Japan, HASHIMOTO Sci. Rep. Tokyo Kyoiku Daig. 7 1960.

## †DIPLEUROZOA

*Dickinsonia costata* p. 379, *eyrei* p. 380, GLAESSNER.

*Papilionata eyrei* a sp. of *Dickinsonia* p. 380, GLAESSNER.

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*Cyanea capillata* p. 89 fig., THIEL.

†*Pseudorhizostomites* discussed p. 381, a synonym of *Pseudorhopilema* p. 382, GLAESSNER.

†*Pseudorhopilema* a synonym of *Pseudorhizostomites* p. 382, GLAESSNER.

*Stephanoscyphus simplex* p. 76 fig., HARTMAN.

*Stygiomedusa fabulosa* p. 303 fig., RUSSELL & REES.

*Tetraplatia volitans* p. 264 fig., *chuni* p. 274 fig., RALPH.

Tetraplatidae **fam. n.** p. 278, RALPH Proc. roy. Soc. 152 B 1960.

## ANTHOZOA

### ALCYONARIA

*Actinoptilon molle* p. 366, TIXIER-DURIVAUT (1).

*Alcyonium gracilinum* p. 5, UTINOMI (1).

*Anethia flava*, *glauca* p. 361, TIXIER-DURIVAUT (1).—*A.* p. 247, *glauca* p. 247, VERSEVELDT.

*Anthomastus granulatus* p. 6 fig., UTINOMI (1).

*Bathyalcyon robustum* p. 7 fig., UTINOMI (1).

*Bellonella rigida* p. 4 fig., *dofleini* p. 5 fig., *macrospina* p. 5 fig., UTINOMI (1).

*Briareum asbestinum* p. 3 fig., GUITART MANDAY.

*Capnella* revised p. 28, *capitulifera* p. 28 fig., UTINOMI (2).

*Cavernularia lütkeni* p. 366, TIXIER-DURIVAUT (1).

*Cespitularia coerulesa* p. 362, TIXIER-DURIVAUULT (1).—*C. multipinnata* p. 248, VERSEVELDT.

†*Charnia* sp. p. 397, GLAESSNER.

†*Charniodiscus* p. 397, GLAESSNER.

*Chondronephthya* **gen. n.** (fam. Nephtheidae) p. 35, type sp. (by original designation) *Eumepthya fusca* p. 35 fig. Port Jackson, UTINOMI Publ. Seto mar. biol. Lab. 8 1 1960.

*Cladiella* p. 359, *madagascarensis* p. 360, TIXIER-DURIVAUULT (1).

*Clavularia gotoi* a sp. of *Sarcodictyon* p. 3, UTINOMI (1).

*Coelorgia palmosa* p. 359, TIXIER-DURIVAUULT (1).

*Daniela koreni* p. 17 fig., UTINOMI (1).

*Dendronephthya arakanensis*, *cirsum*, *cocosiensis*, *crystallina*, *deccusatospinosa*, *delicatissima*, *dichotoma*, *eburnea*, *erinacea*, *filigrana*, *flammea*, *foliata*, *formosa*, *furcata*, *ganjamensis*, *golgotha*, *gracillima*, *gravieri*, *griffini*, *japonica*, *macrocaulis*, *malaya*, *marenzelleri*, *mirabilis*, *orientalis*, *padacensis*, *palaoensis*, *palmata*, *pentagona*, *punctata*, *putleri*, *radiata*, *speciosa*, *thuja*, *yamamotoi* are spp. of *Roxasia* ? (q.v.), TIXIER-DURIVAUULT & PREVORESEK.—*D. spinifera* p. 22, *acaulis* p. 22 fig., UTINOMI (1).—*D. inhacensis* **sp. n.** p. 511 fig. East Africa, *bonnieri* **sp. n.** p. 514 fig. Red Sea, VERSEVELDT (1).

*Distichoptilum verrillii* p. 76 fig., HARTMAN.

*Ellisella* p. 177, *limbaughi* **sp. n.** p. 177 fig. California, BAYER & DEICHMANN.

*Ellisellidae* p. 176, BAYER & DEICHMANN.

*Eumepthya spiculosa* a sp. of *Paraspongodes* p. 20, UTINOMI (1).

*Eunicea mutica* p. 8 fig., *crassa* p. 9 fig., *tourneforti* p. 10 fig., *mammosa* p. 11 fig., *multicauda* p. 12 fig., GUITART MANDAY.

*Gorgonia flabellum* p. 15 fig., GUITART MANDAY.

†*Heliopora bellardii* p. 358, PAVLOVEG.

*Heteroxenia membranacea*, *rigida*, *elisabethae* p. 361, *fuscescens* p. 362, TIXIER-DURIVAUULT (1).

*Isidella elongata* p. 66, DIEUZEIDE.

*Kophobelemnion biflorum* **sp. n.** p. 329 fig. Kurile-Kamtschatka trench and Bering Sea, *affine* p. 334 fig., PASTERNAK.

*Lobophytum crassospiculatum*, *crebriplicatum* p. 360, TIXIER-DURIVAUULT (1).—*L. crassum* p. 215, *hedleyi*, *pauciflorum* p. 218, VERSEVELDT.

*Minabea ozakii* p. 9 fig., UTINOMI (1).

*Muricea spicifera* p. 13 fig., *muricata* p. 14 fig., GUITART MANDAY.

Nephtheidae revised p. 27, UTINOMI (2).

*Nicella guadalupensis* p. 181, BAYER & DEICHMANN.

*Pachyclavaria* p. 210, *violacea* p. 211 fig., VERSEVELDT.

*Paraspongodes spiculosa* p. 20 fig., UTINOMI (1).

*Plexaura flexuosa* p. 7 fig., GUITART MANDAY.

*Plexaurella vermiculata* p. 4 fig., GUITART MANDAY.

*Plexaureopsis flavida* p. 5 fig., *humilis* p. 6 fig., GUITART MANDAY.

†*Pragniella* a true alcyonarian p. 234, HILL.

†*Pteridium* discussed p. 382, GLAESSNER.

*Pteroides esperi* p. 178 fig., JONES.

*Pterogorgia sparsiramosa* p. 18 fig., *acerosa* p. 19 fig., *elastica* p. 20 fig., *elliptica* p. 21 fig., GUITART MANDAY.

†*Rangaea* p. 383, *arborescens* **sp. n.** p. 383 fig. Precambrian South Australia, *R.?* sp. p. 387 fig. renamed *Charnia* sp. p. 397, GLAESSNER.

*Roxasia* diagnosed p. 6, *japonica* p. 16 fig., *gardineri* p. 19 fig., *palmata* p. 20 fig., *cocosiensis* p. 25 fig., *ehrenbergi* p. 29 fig., *furcata* p. 33 fig., *clara* **sp. n.** p. 38 fig. Red Sea, *thuja* p. 42 fig., *suenzoni* p. 46 fig., *armata* p. 50 fig., *devexa* **sp. n.** p. 54 fig. Red Sea, *latipes* **sp. n.** p. 58 fig. Moluccas, *magna* **sp. n.** p. 63 fig. Red Sea, *candida* p. 68 fig., *purpurea* p. 73 fig., *radiata* p. 74 fig., *hirsuta* **sp. n.** p. 78 fig. Red Sea, *golgotha* p. 82 fig., *uliginosa* p. 87, *padacensis* p. 87 fig., *parvula* p. 91, *zanzibarensis* p. 92, *caerulea* p. 92 fig., *fischeri* **sp. n.** p. 93 fig. Mozambique, *griffini* p. 97 fig., *masoni* p. 101 fig., *eburnea* p. 103 fig., *punctata* p. 107 fig., *alba* p. 110 fig., *formosa* p. 111 fig., *elegans* p. 115 fig., *cirsum* p. 118 fig., *biformata* p. 121, *andersoni* p. 122 fig., *arbuscula* p. 124 fig., *costalatorubra* p. 125 fig., *thomsoni* p. 126 fig., *tenera* p. 127 fig., *crassa* **sp. n.** p. 131 fig. Red Sea, *marenzelleri* p. 134 fig., *alcocki* p. 138, *cervicornis* p. 139 fig., *halterosclera* p. 142, *involuta* p. 143 fig., *flammea* p. 148 fig., *macrocaulis* p. 151 fig., *crystallina* p. 156 fig., *divaricata* p. 159 fig., *natalensis* **sp. n.** p. 164 fig. Natal, *jucunda* **sp. n.** p. 168 fig. Japan, *tenuis* **sp. n.** p. 172 fig. Japan, *mollis* p. 175 fig., *klunzingeri* p. 179 fig., *gravieri* p. 183 fig., *laxa* p. 186 fig., *ramulosa* p. 190 fig., *fragilis* **sp. n.** p. 191 fig. Moluccas, *microspiculata* p. 196 fig., *ganjamensis* p. 199 fig., *erinacea* p. 203 fig., *delicatissima* p. 207 fig., *yamamotoi* p. 211 fig., *depressa* p. 215 fig., *rosea* p. 218 fig., *foliata* p. 222 fig., *pentagona* p. 227 fig., *malaya* p. 231 fig., *dichotoma* p. 235 fig., *arborescens* p. 236 fig., *speciosa* p. 240 fig., *merguensis* p. 245 fig., *palaoensis* p. 246 fig., *aspera* **sp. n.** p. 250 fig. China Sea, *filigrana* p. 255 fig., *rigida* p. 259 fig., *gracillima* p. 262 fig., *orientalis* p. 266 fig., *deccusatospinosa* p. 270 fig., *persica* p. 274 fig., *andamanensis* p. 275 fig., *arakanensis* p. 277 fig., *translucens* p. 280, *mirabilis* p. 281 fig., *longispina* p. 286 fig., *putleri* p. 287 fig., *R.?* *alexanderi*, *crosslandi*, *magnacantha* p. 292, *nigripes*, *oviformis* p. 293, *rubescens*, *aurantiaca* p. 294, TIXIER-DURIVAUULT & PREVORESEK.

*Sarcodictyon* p. 2, *gotoi* p. 3 fig., UTINOMI (1).

*Sarcophyton trocheliophorum* p. 360, TIXIER-DURIVAUULT (1).—*S. acutangulum* p. 220, *crassicaule* p. 224, *latum* p. 225 fig., *spongiosum* p. 227, *tenuispiculatum* p. 229 fig., *trocheliophorum* p. 232, VERSEVELDT.

*Scleronephthya* revised p. 31, *pustulosa* p. 32 fig., UTINOMI (2).

*Simularia polydactyla* p. 360, TIXIER-DURIVAUULT (1).—*S. densa* p. 233 fig., *dura* p. 235, *variabilis* p. 237, *flexibilis* p. 239, *leptoclados*, *polydactyla* p. 240, VERSEVELDT.

*Siphonogorgia dipsacea* p. 9 fig., *dofleini* p. 10 fig., cf. *pendula* p. 12 fig., *crassa* p. 14 fig., *alba* **sp. n.** p. 16 fig. Japan, UTINOMI (1).

*Spongioderma chuni* p. 362, TIXIER-DURIVAUULT (1).

*Spongodes arborescens*, *armata*, *candida*, *cervicornis*, *depressa*, *divaricata*, *ehrenbergi*, *elegans*, *involuta*, *klunzingeri*, *laxa*, *microspiculata*, *mollis*, *rigida*, *rosea*, *suenzoni* and *tenera* are spp. of *Roxasia*, and *alexanderi*, *crosslandi*, *rubescens* and *aurantiaca* are *Roxasia* ? (q.v.), TIXIER-DURIVAUULT & PREVORESEK.

*Teleso arborescens* p. 359, TIXIER-DURIVAUULT (1).

*Tubipora musica* p. 215, VERSEVELDT.

*Veretillum cynomorium* p. 362, *leloupi* **sp. n.** p. 363 fig. Mozambique, TIXIER-DURIVAUULT (1).



*Virgularia gustaviana* p. 366, TIXIER-DURIVAUT (1).

*Xenia dayi* sp. n. p. 520 fig. S. Africa, TIXIER-DURIVAUT.—*X. viridis* p. 361, TIXIER-DURIVAUT (1).—*X. p. 241, hicksoni* p. 242 fig., *membranacea* p. 244 fig., *viridis* p. 246 fig., VERSEVELDT.

*Xiphigorgia citrina* p. 16 fig., *anceps* p. 17 fig., GUITART MANDAY.

#### †TABULATA

*Aedolopora* p. 89, *breviana* sp. n. pp. 89, 100 fig. U. Ordovician China, Yü.

*Agetolites asiaticus* nom. nud. p. 27, var. *ovalis* nom. nud. p. 28, [KIM].

*Alveolitella* p. 120, *karmakensis* p. 120 fig., *polenovi* p. 121 fig., *reptata* sp. n. p. 122 fig. Devonian Urals, [YANET].

*Alveolites* sp. p. 24 fig., KOSTIC-PODGORSKA.—*A. (Caliopora) frechi, carnicus* p. 203, PHILIP.—*A. tenuissimus* p. 285, *straeleni* p. 285 fig., STASIŃSKA.—*A. p. 116, distinctus* p. 116 fig., *uralicus* p. 117 fig., *wagranensis* p. 118 fig., *sp. n., minutus* p. 119 fig., cf. *mirus* sp. n. Dubatolov MS. p. 119 fig., Devonian Urals, [YANET].—*A.* a senior synonym of *Kitikamia* p. 455, GALLOWAY.

*Amassia* gen. n. (fam. Cryptolichenariidae) p. 1151 [Engl. trans. p. 1196], type sp. (by original designation) *radugini* Mironova p. 1152 fig. [Engl. trans. p. 1197 fig.], *princeps* Mironova p. 1152 fig. [Engl. trans. p. 1197 fig.], *chaetoides* Sokolov p. 1152 fig. [Engl. trans. p. 1198 fig.], *sp. n.* Ordovician Russia, in SOKOLOV & MIRONOVA Dokl. Akad. Nauk S.S.S.R. 129 5 1959 [Engl. Trans., Earth Sci. Sect. 129 1-6 1960].

*Aulopora* sp. p. 287, STASIŃSKA.

*Caliopora* p. 122, *primitiva* sp. n. p. 123 fig., *elegans* p. 123 fig., *chaetoides* p. 124 fig., *gracilis* sp. n. p. 125 fig., *uralica* p. 126 fig., *jejunia* p. 127 fig., *taliensis* p. 127 fig., *idonea* p. 128 fig., *sp. n.* Devonian Urals, [YANET].—C. see *Alveolites*.

*Catenipora* pp. 82, 98, C. (?) *subovata* pp. 83, 99 fig., C. (?) *minima* pp. 83, 98 fig., *sp. n.* U. Ordovician China, Yü—See also *Holocatenipora*.

*Chaetetes* spp. of the Rhaetic are algae p. 339, FLÜGEL, E. (1).—*C. regularis*, sp., *barrandi* p. 284, STASIŃSKA.

*Cladochonus* sp. I p. 297 fig., sp. II p. 297 fig., CHLUPÁČ.—*C. ramosa* sp. n. p. 79 fig. U. Devonian Russia, *gracilis* p. 80 fig., [ERMAKOVA (1)].—*C. gracilis* p. 286, STASIŃSKA.—*C. p. 134, seriata* p. 134 fig., STUMM.—*C. p. 111, crassa* p. 112 fig., *angusta* p. 111 fig., *ivdelensis* p. 113 fig., *sp. n., vermicularis* var. *clara* var. n. p. 113 fig., C. (?) *cruciformis* sp. n. p. 114 fig., *C. informa* sp. n. p. 115 fig., *cylindricellularis* sp. n. Dubatolov MS. p. 115 fig., Devonian Urals, [YANET].

*Coenites* cf. *escharoides* p. 287, STASIŃSKA.—*C. p. 135, juniperinus* p. 135 fig., STUMM.—*C. p. 129, ex gr. salairicus* p. 129 fig., [YANET].

Cryptolichenariidae fam. n. p. 1150 [Engl. trans. p. 1196] Ordovician, Sokolov in SOKOLOV & MIRONOVA Dokl. Akad. Nauk S.S.S.R. 129 5 1959 [English Trans., Earth Sci. Sect. 129 1-6 1960].

*Desmidopora* p. 48, *alveolaris* p. 54 fig., [TESAKOV].

*Diapora* a combination of a stromatoporoid and *Springopora* p. 455, GALLOWAY.

*Dictyostroma* p. 455, GALLOWAY.

*Emmonsia* p. 107, *taliensis* p. 107 fig., *karmakensis* Dubatolov MS. p. 108 fig., *sp. n.* Devonian Urals, [YANET].

*Eofletcheria kearsargensis* sp. n. p. 870 fig. Ordovician California, PESTANA.

*Favosites* cf. *forbesi* p. 142, *styriaca* p. 158, cf. *graffi* p. 159 fig., CAVET.—*F. ottiliae* p. 22 fig., KOSTIC-PODGORSKA.—*F. type 1* p. 15 fig., *type 2* p. 15 fig., *type 3* p. 15 fig., *type 4* p. 16 fig., OLIVER (1).—*F. grandiporus* p. 196 fig., *squamuliferus* p. 197, forma *bryani* (a) p. 197 fig., forma *nitidus* (β) p. 199 fig., forma *stelliformis* (γ) p. 199 fig., forma *australis* (δ) p. 200 fig., forma *ovatiformis* (ε) p. 200 fig., forma *nov.* p. 201 fig., forma *nov.* p. 201 fig., forma *nov.* p. 201 fig., Devonian S.E. Australia, *brusmitzini, intricatus* p. 202, *proasteriscus, inosculans, alpina, festivus, endyashensis* p. 203, PHILIP.—*F. goldfussi* forma *regularis* p. 281 fig., forma *pyriformis* p. 282 fig., STASIŃSKA.—*F. biloculi = epidermata?* [sic] var. *loculi* p. 590 fig., STUMM (2).—*F. p. 86, goldfussi* p. 86 fig., var. *eifelenis* p. 87 fig., var. *uralensis* p. 88 fig., *antipertusus* p. 89 fig., *wagranensis* sp. n. p. 89 fig., *arschaensis* p. 90 fig., *tuimasensis* p. 91 fig., *regularissimus* sp. n. p. 91 fig., var. *minor* p. 92 fig., var. *minuta* var. n. p. 93 fig., *gregalis* p. 94 fig., *invisus* sp. n. p. 95 fig., *fedolovi* p. 95 fig., *totaensis* sp. n. p. 96 fig., *ovatiforus* p. 97 fig., *bijaensis* p. 97 fig., *stellaris* p. 98 fig., *karpinskyi* sp. n. p. 99 fig., *robustus* p. 100 fig., *F. (Sapporipora) deversor* p. 101 fig., *alpenensis* referred to *Pachyfavosites* p. 102, Devonian Urals, [YANET].

*Halysites catenularia* [sic] p. 30 fig., PERRY.

*Heliolites* sp. p. 22, KOSTIC-PODGORSKA.—*H. [as Helolites] [sic] p. 132] sinkiangensis* sp. n. pp. 85, 132 fig. U. Ordovician China, Yü.

*Holocatenipora* subgen. n. (of *Catenipora*) pp. 84, type sp. (by original designation) *orientata* p. 84, 99 fig., *daliangensis* pp. 84, 99 fig., *uniformis* pp. 84, 99 fig., *sp. n.* U. Ordovician China, Yü Acta palaeont. Sinica 8 2 1960.

*Kentlandia* a junior synonym of *Paleoalveolites* [sic] p. 455, GALLOWAY.

*Kitikamia* a junior synonym of *Alveolites* p. 455, GALLOWAY.

*Lichenaria?* cf. *heroensis* p. 869 fig., *L. sisyphe* sp. n. p. 869 fig. Ordovician California, PESTANA.

*Pachyfavosites* p. 102, *alpenensis* p. 102 fig., *vijaicus* sp. n. p. 103 fig., *markovskyi* p. 104 fig., *exilis* p. 105 fig., *bystrowi* sp. n. p. 106 fig., Devonian Urals, [YANET].

*Paleoalveolites* a senior synonym of *Kentlandia* p. 455, GALLOWAY.

*Paleofavosites* [as *Paleofavosites* [sic]] *grandis* sp. n. pp. 81, 97 fig. U. Ordovician China, Yü.—*P. zerauschanicus* nom. nud. p. 27, [KIM].

*Plagiopora* cf. *denticulata* p. 283, STASIŃSKA.

*Plasmoporella arcatabulata* p. 86 fig., *chinghuiensis* sp. n. pp. 87, 101 fig., *cylindrica* sp. n. pp. 87, 101 fig., *subtilis* sp. n. pp. 87, 132 fig., *convexotabulata* var. *maxima* var. n. pp. 88, 132 fig., *intermedia* sp. n. pp. 88, 102 fig., U. Ordovician China, Yü.

*Pleurodictyum* p. 19, cf. *P. problematicum* p. 20 fig., OLIVER (1).—*P. problematicum* p. 1 fig., *americanum* p. 7 fig., SCHINDEWOLF.

*Proheliolites* p. 90, *orientalis* pp. 90, 100 fig., *squmeosus* [sic] pp. 90, 101 fig., *convexus* pp. 91, 101 fig., *sp. n.* U. Ordovician China, Yü.

*Pseudoroemeria* gen. n. (fam. Syringolitidae) p. 43, type sp. (by original designation) *albashiensis* p. 45 fig., *zhirkensis* p. 46 fig., *sp. n.* L. Devonian Central Asia, [CHEKHOVICH] Paleont. Zhurn. 1960 4 1960.

- Rauschia* error for *Reuschia*, q.v.  
*Rauschia* error for *Reuschia*, q.v.  
*Reuschia* [as *Rauschia* [sic] p. 81 and *Rausia* [sic] pp. 81, 97 and pls.] *aperta* pp. 81, 97 fig., YÜ.  
*Roemeripora wimani* p. 48 fig., HARKER.  
*Sapporipora* see *Favosites*.  
*Scoliopora denticulata* p. 80 fig., *conferta* sp. n. p. 81 fig. M. Devonian Russia, [ERMAKOVA (1)].  
*Sinopora dendroidea* p. 325 fig., KONISHI.  
*Syringopora issaensis* p. 82 fig., *aspera* p. 83 fig., spp. n. U. Devonian Russia, [ERMAKOVA (1)].—*S. crista* p. 287, STASINSKA.—*S. p.* 130, *ejfeliensis* p. 130 fig., var. *vulgaris* var. n. p. 131 fig. Devonian Urals, aff. *dubia* p. 132 fig., *yavorskyi* var. *delicata* p. 132 fig., [YANET].  
*Thamnopora bilamellosa* sp. n. p. 77 fig. M. Devonian Russia, *tumefacta* p. 78 fig., aff. *cervicornis* p. 78, [ERMAKOVA (1)].—*T. boloniensis* p. 23 fig., *reticulata* p. 23 fig., *vermicularis* p. 24 fig., KOSTIĆ-PODGORSKA.—*T. reticulata* p. 283, STASINSKA.—*T. p.* 109, *reticulata* p. 109 fig., *reticulata* type B p. 110 fig., *irregularis* p. 111 fig., [YANET].  
*Thaumalotites plasmoporellis* nom. nud. p. 28, [KIM].  
*Theostegites multitalabus* sp. n. p. 84 fig. U. Devonian Russia, [ERMAKOVA (1)].  
*Trachysammia dendroides* p. 61 fig., KOSTIĆ-PODGORSKA.  
*Wormispora sinkiangensis* sp. n. pp. 86, 100 fig. U. Ordovician China, YÜ.
- ZOANTHARIA
- †*Acanthogyra columnaris* p. 65 fig., FRAJOVÁ.  
†*Acanthophyllum geroldseimensense* p. 20 fig., sp. p. 21, KOSTIĆ-PODGORSKA.—*A. p.* 42, *heterophyllum* p. 43 fig., [SPASSKII].  
†*Acrophyllum* p. 288, [SOSHKINA].  
*Acropora formosa* p. 38 fig., *abrotanoides* p. 39, *pectinata* p. 39 fig., cf. *hebes* p. 80 fig., *gemmifera* p. 40 fig., UTMOMI.  
? *Actinacis* sp. p. 373, PAVLOVEC.  
†*Actinastrea* p. 134, *colliculosa* p. 134 fig., [KUZ'MICHEVA].—*A.* [as *Actinastrea* [sic]] *pentagonalis* p. 62 fig., *mathevi* p. 62 fig., FRAJOVÁ.  
†*Adamanophyllidae* fam. n. p. 85, VASILYUK Paleont. Zhurn. 1959 4 1960.  
†*Adamanophyllum* gen. n. (fam. Adamanophyllidae) p. 85, type sp. (by original designation) *incertus* sp. n. p. 86 fig. L. Carboniferous Donetz Basin, VASILYUK Paleont. Zhurn. 1959 4 1960.  
†*Agathiphyllia* p. 420, *rochettina* p. 420 fig., SESTINI.  
†*Akniophyllum* gen. n. p. 97, type sp. (by original designation) *consutum* sp. n. p. 98 fig. L. Devonian New York State, OLIVER J. Paleont. 34 1 1960.  
†*Alveopora rudis* p. 421 fig., SESTINI.  
†*Amphiastrea* cf. *gracilis* p. 8 fig., [BENDUKIDZE].  
†*Amphihelia profundata* p. 373 nom. nud., CHEVALIER.  
†*Amplexiphyllum* p. 5, *nanum* sp. n. p. 5 fig. L. Devonian Maine U.S.A., OLIVER (1).  
†*Amplexocarinia* a senior synonym of *Depasophyllum* Grabau non Yü p. 181, Smith & Thomas in THOMAS, H. D.  
†*Amplexus coralloides* p. 281, [SOSHKINA].  
†*Amygdalophyllum etheridgei* p. 51 fig., KOSTIĆ-PODGORSKA.  
†*Antiguastrea alveolaris* p. 413, SESTINI.  
†*Aphyllum* p. 29, cf. *sociale* p. 29 fig., [SPASSKII].  
†*Aplosmilitia* cf. *semisulcata* p. 8, [BENDUKIDZE].  
†*Archaeozaphrentis* gen. n. (fam. Protozaphrentidae) p. 897, type sp. (by original designation) *primigenius* sp. n. p. 897 fig. L. Silurian Russia, [IVANOVSKII] Dokl. Akad. Nauk S.S.S.R. 125 4 1959.—*A. primigenius* p. 36 fig., [IVANOVSKII (2)].  
†*Archohelia* sp. p. 78, HERTLEIN & GRANT.  
†*Argulastrea* gen. n. (fam. Phillipsastracidae) p. 10, type sp. (by original designation) *arguta* sp. n. p. 11 fig. Devonian N.W. Canada, CRICKMAY The older Dev. faunas N.W. Terr. 1960.  
†*Astraeopora mostarensis* p. 359, *decaphylla* p. 360, *minima* p. 360 fig., *compressa* pp. 361, 407, cf. *annulata* p. 361, PAVLOVEC.  
†*Astrangia* p. 79, cf. *insignifica* p. 79 fig., HERTLEIN & GRANT.  
†*Astrocoenia dachardii* [sic], *parvostellata* p. 368, PAVLOVEC.—*A. bernensis* p. 224 fig., *maris* p. 225 fig., ZUFFARDI-COMERCI.  
†*Aulacophyllum* p. 311, [SOSHKINA].  
†*Auloclesia* cf. *concentricum* p. 42 fig., KOSTIĆ-PODGORSKA.  
†*Aulophyllum fungites* p. 54 fig., ÜNALANER-KIRAGLI.  
*Balanophyllia fistula* p. 43, UTMOMI.  
†*Balanophyllia italica* p. 691 fig., CHEVALIER (1).—*B. elegans* p. 84 fig., HERTLEIN & GRANT.—*B. concinna* p. 207, KOCHANSKY.—*B. spp. ind.* p. 421, SESTINI.  
†*Barrandeophyllum perplexum* p. 276 fig., [SOSHKINA].—*B. p.* 20, *perplexum* p. 20 fig., [SPASSKII].  
†*Bighornia orvikui* sp. n. p. 251 fig. U. Ordovician Estonia, KALJO.  
†*Billingsastrea trichomica* sp. n. p. 6 fig., *verrilli* p. 6 fig., *stirps* sp. n. p. 7 fig., *tabetiformis* sp. n. p. 8 fig., Devonian N.W. Canada, CRICKMAY.  
†*Bothrophyllum* sp. p. 55 fig., KOSTIĆ-PODGORSKA.  
†*Brachyasma bassleri* sp. n. p. 868 fig. Ordovician California, PESTANA.  
†*Brevisseptophyllum* gen. n. (fam. Columnariidae) p. 85, type sp. (by original designation) *kochanensis* sp. n. p. 86 fig. M. Devonian Russia, [ERMAKOVA] Trud. Vses. Nauch.-Issl. Gheol.-raz. Inst. (VNIGNI) 16 1960.  
†*Briantasma* gen. n. p. 89, type sp. (by original designation) *americanum* p. 89 fig., *knobboromense* p. 91 fig., spp. n. L. Devonian New York State, OLIVER J. Paleont. 34 1 1960.—*B. p.* 6, *mainense* sp. n. p. 7 fig. L. Devonian Maine U.S.A. OLIVER (1).  
*Bunodactis stelloides* p. 431 fig., LEWIS.  
*Bunodosoma kukenthalii* p. 430 fig., *cavernata* p. 430 fig., LEWIS.  
†*Calamophyllia flabellum* p. 29, *italoni* p. 30, C. (?) *tubiporaeformis* p. 30 fig., [BENDUKIDZE].—*C. flabellum* var. *compacta* p. 212, *ducreti* p. 213, ZUFFARDI-COMERCI.—C. see *Sylosmilitia* and *Thecosmilitia*.  
†*Calamoseris flabellum* p. 67, FRAJOVÁ.  
†*Calceola sandalina* p. 30 fig., [SPASSKII].—*C. sandalina* subsp. *inflata* subsp. n. p. 247 fig., subsp. *sandalina* p. 247 fig., subsp. *elongata* subsp. n. p. 247 fig., subsp. *intermediata*

**subsp. n.** pp. 247, 248 fig., *subsp. naningensis subsp. n.* p. 247 fig., *subsp. reclangulata subsp. n.* p. 247 fig., *subsp. subnensis subsp. n.* p. 247 fig., *subsp. acuminata* p. 247, *subsp. arcuata subsp. n.* p. 248 fig., Devonian China, YOH & YU.

†*Calmiussiphyllum* **gen. n.** (fam. Caniniidae) p. 86, type sp. (by original designation) *calmiussi sp. n.* p. 87 fig. L. Carboniferous Donetz Basin, VASILYUK Paleont. Zhurn. 1959 4 1960.

†*Cambrophyllum problematicum* p. 672 fig. [Engl. trans. p. 1190 fig.], [VOLOGDIN].

†*Campophyllum* p. 50, *soeticum* p. 50 fig., [SPASSKII].

†*Caninia okensis* pp. 343–347 fig., **sp. n.** 1 [sic] p. 348 fig., **sp. n.** 2 [sic] p. 350 fig., [DOBROLYUBOVA].—C. p. 573, *trajana sp. n.* p. 574 fig. Permian Nevada and Utah, EASTON.—C. *ovibis* p. 41 fig., *belcheri sp. n.* p. 43 fig. Permian Canada, HARKER.—C. sp. pl. 1, HERNÁNDEZ-SAMPELAYO.—C. ? sp. p. 54 fig., KOSTIĆ-PODGORSKA.—C. p. 292, *cornucopiae* p. 292 fig., *patula* var. *tomienis* p. 296 fig., sp. ex gr. *cylindrica* p. 298 fig., [SOSHKINA].—C. *cylindrica* p. 55 fig., ÜNSALANER-KIRAGLI.

*Carcinactis* **gen. n.** (fam. Sagartiidae) p. 595, type sp. (by original designation) *ichikawai sp. n.* p. 596 fig. Japan, UCHIDA Jap. J. Zool. 12 4 1960.

†*Carcinophyllum patellum* p. 56 fig., cf. *panopodum* p. 56 fig., C. ? sp. ind. p. 57 fig., KOSTIĆ-PODGORSKA.—C. *vaughani* p. 55 fig., ÜNSALANER-KIRAGLI.

†*Carruthersella garwoodi* p. 50 fig., KOSTIĆ-PODGORSKA.

*Caryophyllia profunda* p. 198 fig., SQUIRES (2).—C. cf. *scobinosa* p. 42, UTINOMI.

†*Caulastraea* [as *Caulastraea* [sic]] aff. *leptoclada* p. 9, WELLS.—C. *matheroni* nom. nud. p. 369, CHEVALIER.

† ? *Ceratostilia toralolensis sp. n.* p. 86 fig. U. Cretaceous Spain, ALLOTEAU.

†*Ceratotrochus multiserialis*, sp. p. 207, KOCHANSKY.

†*Charactophyllum* p. 52, *antiquum* p. 52 fig., [SPASSKII].

† ? *Circiphyllia annulata* p. 366, PAVLOVEC.

†*Cladangia cocchi* pp. 365, 408, PAVLOVEC.

†*Cladocora caespitosa* [as *caespitosa* [sic]] pl. 1, COMASCHI CARIA.

†*Cladophyllia* aff. *chofatti* p. 23 fig., *ramea* p. 23 fig., [BENDUKIDZE].

†*Clausastraea* discussed p. 3, type sp. *tessellata* pp. 4, 8 fig., *costata* p. 10, *lichotoma* p. 11, *dubia* p. 11 fig., *edwardsi* p. 13 fig., *limitata* p. 15, *parva* p. 16 fig., var. *parvula* var. **n.** p. 18 fig. U. Jurassic France, *radensis sp. n.* p. 18 fig. U. Jurassic France, *querolensis sp. n.* p. 20 fig. U. Jurassic Spain, *superficialis sp. n.* p. 21 fig. U. Jurassic Spain, *bolzei sp. n.* p. 23 fig. L. Cretaceous Tunisia, *salensis sp. n.* p. 25 fig. L. Cretaceous France, *almensis sp. n.* p. 27 fig. U. Cretaceous France, *lamellostriata* p. 29 fig., *plana* p. 32 fig., *arnaudi sp. n.* p. 34 fig. U. Cretaceous France, *newiensis sp. n.* p. 36 fig. U. Cretaceous France, *bellomontensis sp. n.* p. 38 fig. U. Cretaceous France, ALLOTEAU (2).

†*Clisiophyllum keyserlingi* p. 40 fig., sp. p. 41 fig., KOSTIĆ-PODGORSKA.—C. ? *tumulus* p. 44 fig., HARKER.—C. *omalusi* a sp. of *Cyathochlis* p. 287, [SOSHKINA].—C. *keyserlingi* p. 56 fig., ÜNSALANER-KIRAGLI.

†*Columnaria vulgaris* p. 87, [ERMAKOVA (1)].—C. **sp. n.** A [sic] p. 25 fig. M. Devonian Austria, FLÜGEL, H. & SCHMUNEK.—C. *alveolata* p. 30 fig., PERRY.

†*Comaseris* cf. *brevivalis* p. 34, [BENDUKIDZE].

†*Complexastraea* pp. 456, 467, *hemisphaerica* p. 459 fig., *theomini* p. 460 fig., *burgundias* p. 461 fig., *sobkoviensis sp. n.* pp. 462, 468 fig., *carinata sp. n.* pp. 463, 468 fig., U. Jurassic Poland, RONIEWICZ.

*Condylactus passiflora* p. 11 fig., STRAUGHAN.

†*Crataniophyllum* **nom. n.** for *Barboursia* Lang, Smith & Thomas not Rathbun p. 341, type sp. (by original designation) *Craterophyllum verticillatum* p. 341 U. Carboniferous Nebraska U.S.A., LANG & THOMAS.

†*Craterophyllum verticillatum* the type sp. "of *Crataniophyllum* p. 341, LANG & THOMAS.

† ? *Cricocyathus tarraconensis sp. n.* p. 104 fig. U. Cretaceous Spain, ALLOTEAU.

†*Cryptangia parasitica* p. 328 fig., BUGUE.

†*Cryptocoenia octosepta*, C. [as *Cryptocoenia* [sic]] *octonaria* p. 17, *tabulata* p. 18, *castellum* p. 18 fig., C. [as *Cryptocoenia* [sic]] *delemontana* p. 19, *limbata* p. 20 fig., [BENDUKIDZE].—C. *brevis* p. 221 fig., *limbata* p. 222, C. [as *Cryptocoenia* [sic]] *thiesingi* p. 223, ZUFFARDI-COMERCI.

*Culicia australiensis* p. 200 fig., SQUIRES (2).

†*Culicia rubicola* p. 6 fig., SQUIRES.

†*Cyathaxonia cornu* subsp. *syngaxa subsp. n.* p. 96 fig. L. Carboniferous Kazakhstan, KELLER.—C. cf. *cornu* p. 38 fig., KOSTIĆ-PODGORSKA.

†*Cyathocarina rufiana* p. 38 fig., KOSTIĆ-PODGORSKA.

†*Cyathochlis* p. 282, *modavensis* p. 282 fig., *omalusi* p. 287, [SOSHKINA].

†*Cyathophora bourgueti* p. 21 fig., *claudiensis* p. 22, [BENDUKIDZE].—C. p. 133, *antiqua* p. 134 fig., [KUZ'MICHEVA].

† ? *Cyathophyllum* cf. *ungeri* p. 20 fig., KOSTIĆ-PODGORSKA.

†*Cyathoseris* p. 418, *apennina* p. 418 fig., *hypocrateriformis* p. 419 fig., SESTINI.

†*Cyclotites* p. 138, *intumescens* p. 138 fig., *neocomiensis* p. 138 fig., [KUZ'MICHEVA].—C. *intumescens* p. 55 fig., *neocomiensis* p. 55 fig., [KUZ'MICHEVA (1)].

*Cylindrophyllia* see *Kionotrochus*.

†*Cystophrentis* p. 42, *uralica sp. n.* p. 42 fig. L. Carboniferous northern Urals, [ROGOZOV].

†*Dendracis gevillii* p. 359, PAVLOVEC.

†*Dendrophyllia guidottii* p. 611 fig., DIENT & OMENETTO.—D. cf. *oldroydi* p. 82 fig., HERTLEIN & GRANT.

†*Depasophyllum* Yü type sp. chosen *Diphyphyllum* (*Depasophyllum*) *hochangpingense* p. 181, *convexum* p. 181, *Depasophyllum* Yü a diphymorph of and junior synonym of *Lithostrotion* p. 181, but *Depasophyllum* Grabau (non Yü) a junior synonym of *Amplexocarinia* p. 181, Smith & Thomas in THOMAS, H. D.—D. *tabulatum sp. n.* p. 162 fig. Devonian New York State, STUMM (1).

†*Dermoseris chardii* p. 32 fig., [BENDUKIDZE].

†*Dermosmia laxata* p. 66 fig., FRAJOVÁ.

*Desmophyllum incertum* p. 87 fig., *rusei* p. 88, ROSSI.

†*Dibunophyllum urusica sp. n.* p. 93 fig. L. Carboniferous Kazakhstan, KELLER.—D. *bipartitum bipartitum* p. 42 fig., *vaughani bosniaca subsp. n.* p. 44 fig. Carboniferous Yugoslavia, sp. ind. A p. 45 fig., sp. ind. B p. 46 fig., sp. C p. 47 fig., KOSTIĆ-PODGORSKA.

†*Digonophyllum* p. 38, *schulzi* p. 38 fig., [SPASSKII].

†*Dimorpharaea* cf. *kechlini* p. 35 fig., [BENDUKIDZE].

- †*Dimorphastraea* cf. *lamellosa* p. 31 fig., [BENDUKIDZE].—*D.* p. 138, *fungiomorpha* **sp. n.** p. 138 fig. Lower Cretaceous Crimea, [KUZ'MICHEVA].—*D. conica* p. 306, POLJAK.
- †*Dimorphocenia* p. 135, *crassisepta* p. 135 fig. *alpina* p. 135 fig., [KUZ'MICHEVA].
- †*Diphyphyllum* (*Depasophyllum*) *hochangpingense* the type sp. of *Depasophyllum* p. 181, *convexum* p. 181, Smith & Thomas in THOMAS, H. D.—*D.* see *Lithostrotion*.
- †*Diplaraea subcrassa* p. 307, *simplex* p. 307 fig., aff. *nobilis*, *alpina* p. 308, POLJAK.
- †*Diplocoenia caespitosa* [as *caespitosa* [sic]] p. 14, [BENDUKIDZE].—*D. jasnica* **sp. n.** p. 64 fig. U. Jurassic Czechoslovakia, FRAJOVÁ.—*D.* [as *Diplocoenia* [sic]] p. 136, *mirabilis* p. 136 fig., *turbinata* p. 137 fig., *hemispherica* p. 137 fig., [KUZ'MICHEVA].
- †*Discocyathus* p. 136, *radians* var. *laticonica* p. 137 fig., [KUZ'MICHEVA].
- †*Disphyllum geinitzi* pp. 7, 52, 57, 63 fig., RÓZKOWSKA.
- †*Dohmophyllum* sp. p. 21 fig., KOSTIĆ-PODGORSKA.
- †*Elysastraea* discussed p. 5, ALLOTEAU (2).
- †*Enallohelix malladai* p. 94 fig., BATALLER.—*E. elegans* var. *francoica* p. 300, POLJAK.
- †*Endophyllum barbatum* **sp. n.** p. 12 fig. Devonian N.W. Canada, CRICKMAY.
- †*Entelophyllum* p. 137, *heteroseptatum* **sp. n.** p. 137 fig. Wenlockian Siberia, [IVANOVSKY (1)].
- †*Epismilia malladai* p. 95 fig., BATALLER.—*E. delemontana* p. 210 fig., **sp. ind.** p. 210, ZUFFARDI-COMERCI.
- †*Epistreptophyllum conicum* p. 306, POLJAK.
- Epizoanthus* p. 93, *leptoderma* p. 93 fig., *induratum* p. 95 fig., **sp. n.** California, *gabrielii* p. 98 fig., CUTRESS & PEQUEGNAT.
- †*Eugyra* p. 133, *cotteai* p. 133 fig., *pontica* p. 133 fig., *interrupta* p. 133 fig., [KUZ'MICHEVA].
- †*Eurekaphyllum* p. 310, [SOSHIKINA].
- †*Fasciophyllum* p. 61, *orientale* p. 62 fig., *schlüteri* p. 62 fig., [SPASSKII].—*F.* p. 84, *F. (?) insuetum* **sp. n.** p. 84 fig. Devonian Urals, [VAGANOVA].
- †*Favistella* p. 76, *alveolata* p. 77 fig., var. *maxima* var. **n.** pp. 78, 95 fig., *nanshanense* **sp. n.** pp. 77, 95 fig., *obliquiseptata* **sp. n.** pp. 78, 95 fig., *intermediata* **sp. n.** pp. 79, 95 fig., *irregularis* **sp. n.** pp. 79, 96 fig., *F. (Palaeophyllum) as Palaeophyllum* [sic] p. 79, *F. (P.) minimum* **sp. n.** pp. 80, 96 fig., U. Ordovician, YÜ.
- Favites aspera* p. 42 fig., UTINOMI.
- †*Flabellum* sp. div. p. 209, KOCHANSKY.
- †*Fletcherina* p. 95, *incognita* **sp. n.** p. 95 fig. L. Devonian New York State, OLIVER.
- Fungia* sp. cf. *concinna* p. 41, UTINOMI.
- †*Gangamophyllum boreale* p. 58 fig., KOSTIĆ-PODGORSKA.
- Gephyra dohrni* p. 67, DIEUZEIDE.
- †*Gerthia* p. 61, *sibirica* p. 63 fig., *crassa* p. 65 fig., **sp. n.** Permian U.S.S.R., *G. (?) Maichelasma* sp. p. 66 fig., [SOKOLOV].
- †*Glyphastraea laxelamellata* p. 416 fig., SESTINI.
- †*Goniastrea aloysii-sabadai* p. 214 fig., *favulus* p. 215 fig., *delemontana* p. 216 fig., *crassisepta* p. 217, ZUFFARDI-COMERCI.
- Goniocorella dumosa* p. 197 fig., SQUIRES (2).
- †*Goniopora octopartita* p. 373, PAVLOVEC.
- †*Grevinkia whitei* **sp. n.** p. 868 fig. Ordovician California, PESTANA.
- †*Grypophyllum* p. 60, *striatum* p. 61 fig., [SPASSKII].
- Helictis bellis* p. 9, BERNER.
- Heliastrea* [as *Heliastrea* [sic]] *abdita* p. 84, ROSSI.
- †*Heliastrea irradians*, ? *H.* sp. p. 365, PAVLOVEC.—*H. alpina* p. 413 fig., SESTINI.
- †*Heliocenia* [as *Heliocenia* [sic]] *variabilis* p. 14 fig., *costulata* p. 15, *humberti* p. 16, [BENDUKIDZE].—*H. costulata* p. 217, *etalloni* p. 218 fig., *corallina* p. 219, *humberti* p. 219 fig., *catenula* **sp. n.** p. 220 fig. Jurassic Abyssinia, ZUFFARDI-COMERCI.
- †*Heliophyllum multiplex* a sp. of *Uralinia* p. 301, [SOSHIKINA].—*H.* p. 53, *hallsi* p. 54 fig., cf. *aiense* p. 54 fig., [SPASSKII].
- Heterocyathus aequicostatus* pp. 2, 4 fig., *roussaeanus* pp. 2, 4 fig., SCHINDEWOLF.
- †*Heterophrentis terebrata* p. 36 fig., *prolifera* p. 36 fig., [IVANOVSKII (2)].—*H. prolifera* p. 30 fig., PERRY.
- Heterosammia cochlea* pp. 2, 4 fig., SCHINDEWOLF.
- †*Hexagonaria gemmifera* p. 8 fig., *impedita* p. 9 fig., *atypica* p. 9 fig., *furtiva* p. 10 fig., **sp. n.** Devonian N.W. Canada, CRICKMAY.—*H.* p. 3, *hexagona* p. 4 fig., *quadrigenina quadrigenina* p. 7 fig., *peneckeii* p. 11 fig., *darwini* p. 15 fig., cf. *sanctacrucensis* p. 22, FLÜGEL, H. & SCHIMMUNEK.—*H. laxa* pp. 14, 52, 58, 63 fig., subsp. *jurkowiczensis* **subsp. n.** pp. 23, 52, 58, 64 fig. M. Devonian Poland, RÓZKOWSKA.
- †*Hexalasma* p. 55, *protoseptatum* **sp. n.** p. 57 fig. Permian U.S.S.R., [SOKOLOV].
- †*Hexaphyllia* sp. pp. 351, 357 fig., PAREYN.
- †*Huangia misakensis* **sp. n.** p. 243 fig. Permian Japan, sp. A p. 244 fig., sp. B p. 244 fig., YOKOYAMA.
- †*Hydnophyllia scalaria* p. 414 fig., *michelottii* p. 415 fig., *isseli* p. 415 fig., SESTINI.
- †*Insoliphyllum* **gen. n.** (incert. fam.) p. 170, type sp. (by original designation) *soshkinae* **sp. n.** p. 170 fig. U. Devonian Russia, [ERMAKOVA] Trud. Vses. Nauch.-Issl. Geol.-raz. Neft. Inst. (VNIGNI) 8 1957.
- †*Ipciphyllum tschernyschewi* **sp. n.** p. 28 fig. Permian Ellesmerland, MINATO.
- †*Isastraea minima* p. 227 fig., *explanata* p. 228 fig., *bernensis* p. 229, ZUFFARDI-COMERCI.
- †*Kakuiophyllum* p. 181, *dux* p. 182 fig., STENSAAS & LANOENHEIM.
- †*Kassinella* **gen. n.** (fam. Amplexidae) p. 90, type sp. (by original designation) *longiseptata* **sp. n.** p. 91 fig. L. Carboniferous Kazakhstan, KELLER Paleont. Zhurn. 1959 4 1960.
- †*Keriophylloides* p. 80, *simplex* p. 80 fig., *caespitosum* p. 81 fig., *massium* p. 82 fig., **sp. n.** Devonian Urals, [VAGANOVA].
- †*Ketophyllum* p. 135, *aseptatum* **sp. n.** p. 136 fig. Wenlockian Siberia, [IVANOVSKY (1)].
- †*Keyserlingophyllum* p. 303, *obliquum* p. 303 fig., [SOSHIKINA].
- Kionotrochus (Kionotrochus) suteri* p. 284 fig., *K. (Cylindrophylia) minima* p. 287, SQUIRES (1).
- †*Kionotrochus (Cylindrophylia) minima* p. 287 fig., SQUIRES (1).

- †*Koninkophyllum* sp. ind. cf. *magnificum* p. 47 fig., *caricum* p. 48 fig., *K.* ? sp. p. 49 fig., *K.* ? sp. ind. p. 49 fig., KOSTIC-PODGORSKA.—*K. arizelum* a sp. of *Lithostrotion* p. 124, NELSON.
- †*Kulindrichnus ichnogen. n.* (? burrow of a cerianthid) p. 64, type sp. (by original designation) *langi* p. 64 fig. Liassic Great Britain, HALLAM Palaeontology 3 1 1960.
- †*Laccophyllum* p. 275, [SOSHKINA].
- †*Lambeophyllum* cf. *profundum* p. 865 fig., PESTANA.
- †*Latimaecandra curtata* p. 230 fig., *mayeri* p. 231, sp. ind. p. 232, ZUFFARDI-COMERCI.—*L.* ? *plana* a sp. of *Clausastraea* p. 32, ALLOTEAU (2).
- †*Latiphyllia suevica* p. 28 fig., [BENDUKIDZE].
- †*Leolasma abnorma* sp. n. pp. 75, 94 fig. U. Ordovician China, YU.
- †*Lithostrotion grandis* p. 45 fig., *kunthi* p. 46 fig., cf. *portlocki* p. 46 fig., *L.* ? sp. p. 47 fig., HARKER.—*L. [Thysanophyllum] princeps* p. 576 fig., *L. [Lithostrotionella] mokomoensis* p. 578 fig., *dilatata* p. 578 fig., *L. [Diphyphyllum] connorsensis* p. 579 fig., spp. n. Permian Nevada, EASTON.—*L. pennsylvanicum* a sp. of *Lithostrotionella* p. 117, *mutabile* p. 120 fig., *sinuosum* p. 121 fig., *warreni* sp. n. [= *L. (Diphyphyllum)* sp. A. Sutherland] p. 121 fig. L. Carboniferous Alberta Canada, *genoveiensis* p. 122 fig., *L. (?) macouni* p. 122 fig., *whitneyi* p. 123 fig., *arizelum* p. 124 fig., NELSON.—*L.* a senior synonym of *Debasophyllum* Yü non Grabau, Smith & Thomas in THOMAS, H. D.—*L. junceum* p. 56 fig., ÜNSALANER-KIRAGLI.
- †*Lithostrotionella jasperensis* p. 112 fig., *miera* p. 113 fig., *bailliei* sp. n. p. 114 fig. L. Carboniferous Alberta Canada, *shimeri* p. 114 fig., *L. (Thysanophyllum) astraeiformis* p. 115 fig., *L. pennsylvanicum* p. 117 fig., *americana* p. 118 fig., *banffense* p. 119 fig., *stelcki* sp. n. p. 119 fig. L. Carboniferous Alberta Canada, NELSON.—*L. castelnaui* p. 30 fig., PERRY.—*L.* p. 184, *jasperensis* p. 184 fig., STENSAAS & LANGENHEIM.—*L.* see *Lithostrotion*.
- †*Lithostrotionidae* p. 576, EASTON.
- †*Litophyllum karakirika* sp. n. p. 97 fig. L. Carboniferous Kazakhstan, KELLER.
- †*Lonsdaleia* p. 579, *illipahensis* p. 580 fig., Nevada, *cordillerensis* p. 580 fig. Nevada and California, spp. n. Permian, EASTON.—*L. shimeri* a sp. of *Lithostrotionella* p. 114, NELSON.
- Lophelia prolifera* p. 125 fig., MOORE & BULLIS.
- †*Lophophyllidium* sp. p. 246 fig., YOKOYAMA.
- †*Lophophyllum profundum* p. 912 fig., WILLIAMS, E. G.
- †*Lyriellasma* p. 8, *annulatum* sp. n. p. 10 fig. L. Devonian Maine U.S.A., OLIVER (1).
- †*Macgea* p. 44, *solitaria* p. 44 fig., *multizonata* p. 45 fig., *pulchra* sp. n. p. 46 fig. Devonian U.S.S.R. [SPASSKII].—*M. ponderosa* sp. n. p. 161 fig. Devonian New York State, STUMM (1).
- †*Madrepore (Amphihelia) reflexa* p. 612 fig., DIENI & OMENETTO.
- †*Maendraraea* [as *Meandraraea* [sic]] p. 139, *neocomiensis* p. 139 fig., [KUZ'MICHEVA].
- †*Maichelasma* see *Gerthia*.
- †*Megaphyllum* p. 64, *arcticum* p. 64 fig., ex gr. *longiseptatum* p. 65 fig., [SPASSKII].
- †*Meniscophyllum* aff. *kansuense* p. 36 fig., KOSTIC-PODGORSKA.
- †*Microphyllia bachmayeri* p. 67 fig., FRAJOVÁ.
- †*Microsolena fromenteli* p. 34, [BENDUKIDZE].
- †*Mictophyllum orientalis* sp. n. p. 162 fig. Devonian New York State, STUMM (1).
- †*Monticulastraea provincialis* nom. nud. p. 369, CHEVALIER.
- †*Montlivaltia truncata* p. 24, [BENDUKIDZE].—*M.* p. 134, *calyciformis* p. 135 fig., *pumila* p. 135 fig., [KUZ'MICHEVA].—*M.* [as *Montlivaltia* [sic]] *obconica* p. 301, *compressoides*, *caryophyllata* p. 302, *media* p. 303, POLJAK.—*M.* ? *bormidensis* p. 412 fig., SESTINI.—*M.* [as *Montlivaltia* [sic]] *compressoides* p. 211 fig., *dilatata* p. 211, ZUFFARDI-COMERCI.
- †*Mussismilia provincialis* nom. nud. p. 369, CHEVALIER.
- †*Mycetoseris* [as *Micetoseris* [sic]] *cremai* pl. 1, COMASCHI CARIA.
- †*Nardophyllum* p. 32, *primitivum* p. 33 fig., *marginatum* p. 33 fig., [SPASSKII].—*N.* p. 79, *magnum* sp. n. p. 79 fig. Devonian Urals, [VAGANOVA].
- †*Neocolumnaria* p. 85, *simplex* sp. n. p. 85 fig. Devonian Urals, [VAGANOVA].
- †*Neomicroplasma gen. n.* p. 48, type sp. (by original designation) *dobrolyubovae* p. 49 fig., *septata* p. 50 fig., spp. n. L. Carboniferous northern Russia, [ROGHOZOV] Paleont. Zhurn. 1960 3 1960.
- †*Neostrophophyllum* p. 51, *modicum* p. 51 fig., [SPASSKII].
- †*Nervophyllum gen. n.* (fam. Clisiophyllidae) p. 88, type sp. (by original designation) *beschevensis* sp. n. p. 88 fig. L. Carboniferous Donetz Basin, VASILYUK Paleont. Zhurn. 1959 4 1960.
- †*Nicholsoniella* p. 305, *baschkirica* p. 306 fig., *famenica* sp. n. p. 308 fig., *carinata* sp. n. p. 309 fig., U. Devonian northern European Russia, [SOSHKINA].—*N.* p. 24, *baschkirica* p. 24 fig., [SPASSKII].
- †*Odontophyllum* p. 311, [SOSHKINA].
- †*Oligophyllum* p. 21, *quinqueseptatum* p. 21 fig., [SPASSKII].
- †*Orbicella reussiana* p. 206, KOCHANSKY.
- †*Orthopaterophyllum* p. 23, *tshernyshevii* sp. n. p. 23 fig. Devonian U.S.S.R., [SPASSKII].
- †*Oulangia radames* sp. n. p. 5 fig. Pliocene New Zealand, SQUIRES.
- †*Pachycyathus gen. n.* (fam. Thecocyathiidae) p. 96, type sp. (by original designation) *cylindratus* sp. n. p. 97 fig. U. Cretaceous Spain, ALLOTEAU Anal. Escul. Técn. Perit. Agric. Espec. Agropec. Serv. Técn. Agric. Barcelona 14 1960.
- †*Palaeophyllum* [as *Paleophyllum* [sic]] *mazourkensis* sp. n. p. 867 fig. Ordovician California, *rugosum* p. 868 fig., PESTANA.—*P.* see *Favistella*.
- †*Palaeoplesiastraea columnaris* nom. nud. p. 370, CHEVALIER.
- †*Palaeosmilia murchisoni stutchburyi* p. 53 fig., KOSTIC-PODGORSKA.—*P. murchisoni* p. 57 fig., ÜNSALANER-KIRAGLI.
- Palythoa variabilis* p. 432, LEWIS.
- †*Papiliophyllum* p. 310, [SOSHKINA].
- †*Paracyathus stearnsii* p. 80 fig., HERTLEIN & GRANT.
- †*Parasmilia* sp. p. 369, PAVLOVEC.
- Parazoanthus* p. 90, *lucificum* sp. n. p. 90 fig. California, CUTRESS & PEQUEGNAT.



- †*Pattalophyllia cycloiloides* pp. 370, 408 fig., *costata* p. 370, 408, *subinflata* pp. 371, 408, *dalmatina* p. 371, *sinuosa* pp. 372, 408, ?*P. gnatae*, ?*P. sp.* p. 372, PAVLOVEC.
- Pectinia disticha* p. 85, ROSSI.
- †*Peneckia* aff. *minima* p. 160 fig., [ERMAKOVA].—*P. minor kunthi* pp. 29, 58, 64 fig., RÓZKOWSKA.
- †*Petalaxis grandis* p. 45 and *kunthi* p. 46 are spp. of *Lithostrotion*, HARKER.
- †*Phillipsastraea kotelnitchi* sp. n. p. 162 fig. U. Devonian Russia, [ERMAKOVA].—*P. limitata* p. 89 fig., [ERMAKOVA (1)].—*P. p. 65, filata* p. 66 fig., *thomasi* p. 66 fig., [SPASSKII].
- Phymanthus crucifer* p. 431 fig., LEWIS.
- †*Placomilia polygonata* p. 364, PAVLOVEC.
- †*Planetophyllum* gen. n. (fam. Columnariidae) p. 4, type sp. (by original designation) *planetum* sp. n. p. 4 fig. Devonian Alberta Canada, CRICKMAY The older Dev. faunas N.W. Terr. 1960.
- †*Platycyathus batalleri* p. 106 fig., *depressus* p. 107 fig., spp. n. Cenomanian Spain, ALLOITEAU.
- †*Pterophyllum* p. 58, *P. (?) fragile* sp. n. p. 60 fig. Permian U.S.S.R. [SOKOLOV].
- †*Plesiocaryophyllia* gen. n. (fam. Caryophylliidae) p. 99, type sp. (by original designation) *batalleri* sp. n. p. 100 fig. U. Cretaceous Spain, ALLOITEAU Anal. Escul. Técn. Perit. Agric. Espec. Agropec. Serv. Técn. Agric. Barcelona 14 1960.
- †*Plesiodiploria* gen. n. (fam. Dendrogyriidae) p. 93, type sp. (by original designation) *scutifera* sp. n. p. 94 fig. U. Cretaceous Spain, ALLOITEAU Anal. Escul. Técn. Perit. Espec. Agropec. Serv. Técn. Agric. Barcelona 14 1960.
- †*Pleurosmilia* cf. *maxima* p. 24, [BENDUKIDZE].
- †*Polyphylloriss* aff. *convexa* p. 33, [BENDUKIDZE].—*P. p. 139, convexa* p. 139 fig., [KUZ'MICHEVA].
- Porites superficialis, asteroides* p. 83, ROSSI.—*P. lutea* p. 41, UTMOMI.
- †*Porites calabricae* p. 370, *lobatosepta* p. 371, nomm. nud., CHEVALIER.
- †*Prionastraea* [as *Prionastraea* [sic]] *diversiformis* pl. 1, COMASCHI CARIA.—*P. neugeboreni* p. 206, KOCHANSKY.
- Protanthea simplex* p. 69 fig., NYHOLM.
- †*Protozaphrentidae* fam. n. Ordovician-Silurian p. 895, [IVANOVSKII] Dokl. Akad. Nauk S.S.S.R. 125 4 1959.
- †*Protozaphrentis minor* p. 36 fig., [IVANOVSKII (2)].
- Psammocora contigua* p. 41, UTMOMI.
- †*Pseudoblothrophyllum* gen. n. p. 91, type sp. (by original designation) *helderbergium* p. 92 fig., *munns-villium* p. 93 fig., *arrectum* p. 94 fig., spp. n. L. Devonian New York State, OLIVER J. Paleont. 34 1 1960.
- †*Pseudodigonophyllum* gen. n. (fam. Cystiphyllidae) p. 39, type sp. (by original designation) *macroseptatum* p. 40 fig., *bizonatum* p. 40 fig., spp. n. [Devonian U.S.S.R., [SPASSKII] Paleont. obos. strat. Paleoz. Rudnogo Altaya 3 1960.
- †*Pseudopetraia devonica* p. 278 fig., [SOSHIKINA].—*P. p. 22, devonica* p. 22 fig., [SPASSKII].
- †*Pseudowalvinia* p. 40, *gorskyi* sp. n. p. 41 fig. L. Carboniferous northern Urals, [ROGOZOV].
- †*Pseudozaphrentoides* sp. p. 81 fig., SUTHERLAND & COCKE.
- †*Pseudozonophyllum* p. 35, *versiforme* p. 35 fig., *latum* p. 36 fig., *zmeinogorskiensis* sp. n. p. 37 fig. Devonian U.S.S.R. [SPASSKII].
- †*Penophyllum* p. 41, *bulvankas* sp. n. p. 41 fig. Devonian U.S.S.R., [SPASSKII].
- †*Rhabdophyllia tenuis* pp. 361, 408, *intercostata* pp. 361, 408, PAVLOVEC.—*R. ? tenuis* p. 419 fig., SESTINI.
- †*Rhipidogrya* cf. *elegans* p. 9, [BENDUKIDZE].
- †*Ridderia* gen. n. (fam. Lindstromiidae) p. 24, type sp. (by original designation) *dubatolovi* sp. n. p. 25 fig. Devonian U.S.S.R., [SPASSKII] Paleont. obos. strat. Paleoz. Rudnogo Altaya 3 1960.
- †*Rylstonia cystea* sp. n. p. 94 fig. L. Carboniferous Kazakhstan, KELLER.
- †*Scenophyllum* p. 288, [SOSHIKINA].
- †*Schizosmilia koniakensis* p. 63 fig., FRAJOVÁ.
- †*Schlüteria lyskovensis* sp. n. p. 163 fig. U. Devonian Russia, [ERMAKOVA].
- †*Sinkiangolasma* gen. n. (fam. Tryplasmidae) pp. 75, 96, type sp. (by original designation) *simplex* pp. 76, 97 fig., *primitica* pp. 76, 97 fig., spp. n. U. Ordovician China, Yü Acta palaeont. Sinica 8 2 1960.
- †*Siphonophrentis gigantea* p. 36 fig., [IVANOVSKII (2)].—*S. p. 87, variabilis* sp. n. p. 87 fig. L. Devonian New York State, OLIVER.
- †*Smilobrochus tarraconensis* sp. n. p. 84 fig. U. Cretaceous Spain, ALLOITEAU.
- †*Sochkineophyllum* p. 67, *tsaregradskyi* p. 69 fig., *zavodovskiy* p. 71 fig., spp. n. Permian U.S.S.R., [SOKOLOV].
- Solenastraea* [as *Solenastrea* [sic]] *micans, bournoni* p. 84, ROSSI.
- †*Spongophyllum* p. 55, *halysitoides* p. 55 fig., *kurjaensis* sp. n. p. 56 fig. Devonian U.S.S.R., [SPASSKII].
- †*Stenophyllum uralicum* p. 87 fig., [ERMAKOVA (1)].—*S. p. 57, uralicum* p. 57 fig., *gorskii* p. 58 fig., *devonicum* p. 58 fig., *altum* p. 59 fig., *giganteum* sp. n. p. 60 fig. Devonian U.S.S.R., [SPASSKII].
- †*Stephanococenia furcata* p. 225 fig., *ramulifera* p. 226 fig., ZUFFARDI-COMERCI.
- †*Stephanophyllia agaricoides* p. 207, KOCHANSKY.
- †*Stereolasma* p. 276, [SOSHIKINA].
- †*Streptelasma* sp. pl. 1, HERNÁNDEZ-SAMPelayo.—*S. rusticum* p. 30 fig., PERRY.—*S. sp. 2* p. 865, sp. 3 p. 866, cf. *distinctum* p. 866 fig., cf. *prolongatum* p. 866 fig., *tennysoni* sp. n. p. 867 fig. Ordovician California, PEFTANA.—*S. chekiangensis* sp. n. pp. 74, 94 fig. U. Ordovician China, sp. p. 74 fig., Yü.
- †*Stylacropora hercegovinensis* pp. 358, 407, *eoecaeonica* pp. 359, 407, PAVLOVEC.
- †*Stylastraea* cf. *toulai* p. 47 fig., HARKER.
- †*Stylidophyllum eguchii* sp. n. p. 245 fig., *yokoyamai* subsp. *terioseptatum* subsp. sp. n. p. 245 fig., Permian Japan, YOKOYAMA.
- †*Stylina tuberosa* p. 11 fig., aff. *vallinensis* p. 12, *parvipora* p. 13 fig., *minima* p. 13, [BENDUKIDZE].—*S. tubulifera* p. 63 fig., FRAJOVÁ.—*S. p. 131, turbinata* p. 132 fig., *sparsa* p. 132 fig., *sablensis* p. 132 fig., *pachystylina* p. 132 fig., *elegans* p. 132 fig., [KUZ'MICHEVA].—*S. anthemoides* p. 301 fig., POLJAK.—*S. distans* p. 411 fig., *annulata* p. 411 fig., SESTINI.

- †*Stylocenia taurinensis* p. 366, *reussi*, ? *S. sp.* p. 367, PAVLOVEC.—*S.* [as *Stylocenia* [sic]] *taurinensis* p. 415 fig., SESTINI.
- †*Stylophora distans* pp. 362, 408 fig., cf. *conferia* p. 363, PAVLOVEC.
- †*Stylosmia michelini* p. 10 fig., [BENDUKIDZE].—*S.* (*Calamophyllia*) *radiata* p. 299, POLJAK.
- †*Sudetia gen. n.* pp. 35, 59, 64, type sp. (by original designation p. 3) *lateseptata sp. n.* pp. 35, 59, 64 fig. U. Devonian Poland, *S. ? jevanensis*, *S. ? rossiensis* p. 41, RÓZKOWSKA Acta palaeont. polon. 5:1 1960.
- †*Synastraea cf. concinna* p. 608, STAESCHE.
- †*Tabellaephyllum unicum sp. n.* p. 167 fig. Devonian Russia, [ERMAKOVA].
- †*Tabulophyllum pseudodelticatum sp. n.* p. 165 fig. Devonian Russia, [ERMAKOVA].—*T. p.* 289, *normale* p. 290 fig., [SOSHKINA].—*T. p.* 25, *rotundum sp. n.* p. 26 fig., *major* Bulvanker in Spasskii *sp. n.* p. 27 fig., *altaicum sp. n.* p. 28 fig., Devonian U.S.S.R., ex gr. *gorskii* p. 28 fig., [SPASSKII].—*T. p.* 77, *uralicum sp. n.* p. 77 fig. Devonian Urals, [VAGANOVA].
- †*Tainiropyllum* p. 63, *carinatum* Bulvanker in Spasskii *sp. n.* p. 63 fig. Devonian U.S.S.R., [SPASSKII].
- †*Tarbellastraea siciliae* nom. nud. p. 370, CHEVALIER.—*T. elisiana* p. 414 fig., SESTINI.
- †*Tarraconogyra gen. n.* (fam. Dendrogyriidae) p. 88, type sp. (by original designation) *battalleri* p. 89 fig., *comophyllioides* p. 91 fig., *sp. n.* U. Cretaceous Spain, ALLOTEAU Anal. Escul. Técn. Perit. Agric. Espec. Agropec. Serv. Técn. Agric. Barcelona 14 1960.
- †*Thamnasteria sp.* p. 18 fig., FLÜGEL, E.—*T. lobata* p. 66 fig., FRAJOVÁ.—*T.* [as *Tamnasteria* [sic]] p. 137, *punctata* p. 137 fig., *digitata* p. 137 fig., [KUZ'MICHEVA].—*T. p.* 416, *T. ? volox* p. 417 fig., *adscita* p. 417 fig., SESTINI.—*T.* [as *Thamnasteria* [sic]] *lomontiana* p. 232, ZUFFARDI-COMERCI.
- †*Thamnasteria* see *Thamnasteria*.
- †*Thamnophyllum coronensis sp. n.* p. 168 fig. Devonian Russia, [ERMAKOVA].—*T. diversum sp. n.* p. 88 fig. U. Devonian Russia, [ERMAKOVA (1)].—*T. kunthi* a var. of *Peneckia minor* pp. 29, 58, 64, *trigeminum*, mut. *skalense*, mut. *trigeminum*, mut. *pajchela*, mut. *kozłowski*, mut. *superius* p. 53, RÓZKOWSKA.—*T. p.* 47, *trigemme* p. 47 fig., *stramineum* p. 48 fig., *virgatum* p. 49 fig., [SPASSKII].
- †*Thamoseris cf. amedei* p. 31, cf. *strambergensis* p. 32, [BENDUKIDZE].
- †*Thecosmia langi* p. 687 fig., BEAUVAIS (1).—*T. maxima* p. 25, *longimana* var. *magna* p. 26, *irregularis* p. 26, cf. *moraviensis*, cf. *kiliani* p. 27, [BENDUKIDZE].—*T. sp. p.* 5, FRAJOVÁ.—*T.* [as *Thecosmia* [sic]] p. 303] (*Calamophyllia*) *flabellum* p. 303, var. *compacta*, *granulosa* p. 304, *clathrata* p. 305, *tenuis* p. 305 fig., POLJAK.—*T. badiota* p. 52 fig., FLÜGEL, E. (5).—*T. trichotoma* p. 454 fig., RONEWICZ.
- †*Thysanophyllum* see *Lithostrotion* and *Lithostrotionella*.
- †*Tortophyllum* p. 83, *eifelsensis sp. n.* p. 83 fig. Devonian Urals, [VAGANOVA].
- †*Trochocyathus affinis* p. 208, cf. *pyramidatus* var. *subperarmata* p. 208 fig., sp. p. 209, KOCHANSKY.
- †*Trochoseris* *semiplana* p. 369, PAVLOVEC.—? *T. incerta sp. n.* p. 102 fig. U. Cretaceous Spain, ALLOTEAU.
- †*Trochosmia malladai* p. 95 fig., BATTALLER.—*T. cocchii* p. 363, *alpina* p. 363 fig., PAVLOVEC.
- †*Tryplasma fascicularium sp. n.* p. 96 fig. L. Devonian New York State, OLIVER.—*T. p.* 12, *rhopalium sp. n.* p. 13 fig. L. Devonian Maine U.S.A., OLIVER (1).
- Tubastraea* [as *Tubastrea* [sic]] *aurea* p. 200 fig., SQUIRES (2).
- †*Tungussophyllum gen. n.* (fam. Protozaphrentidae) p. 897, type sp. (by original designation) *Zaphrentis conulus* p. 897 fig. Silurian Gotland, [IVANOVSKII] Dokl. Akad. Nauk S.S.S.R. 125 4 1959.—*T. conulus* p. 36 fig., [IVANOVSKII] (2)].
- †*Turbinolia rosetta sp. n.* p. 1020 fig. Paleocene Alabama, HOWE.
- †*Uralinia* p. 301, *multiplex* p. 301 fig., [SOSHKINA].
- †*Uratutia gen. n.* (fam. Spongophyllidae) p. 5, type sp. (by original designation) *laevigata* p. 5 fig., *acuta* p. 5 fig., *sp. n.* Devonian N.W. Canada, CRICKMAY The older Dev. faunas N.W. Terr. 1960.
- †*Waagenophyllum longiseptatum sp. n.* p. 241 fig. Permian Japan, cf. *akasakiensis* p. 242 fig., sp. p. 243 fig., *W. ? sp. ind.* p. 243, YOKOYAMA.
- †*Wellstrochus nom. n.* (for *Wellsia* Squires not Imlay—fam. Caryophylliidae) p. 1053, type sp. (by original designation) *Wellsia cyathiformis* p. 1053 U. Cretaceous New Zealand, SQUIRES J. Paleont. 34 5 1960.
- †*Xystriphyllum hyperbolicum sp. n.* p. 11 fig. N.W. Canada, CRICKMAY.
- †*Zaphrentis ovibus* a sp. of *Caninia* p. 41, HARKER.—*Z. aff. postuma* pl. 1, *corniculata* pl. 1, HERNÁNDEZ-SAMPELAYO.—*Z. conulus* the type sp. of *Tungussophyllum* p. 897 fig., [IVANOVSKII].—*Z. phrygia* p. 36 fig., *conulus* a sp. of *Tungussophyllum* pp. 36, 38, [IVANOVSKII] (2)].—*Z. p.* 17, cf. *phrygia* p. 18 fig., *Z. ? sp.* p. 19, OLIVER (1).—*Z. konincki* p. 278 fig., *calcariformis* p. 279 fig., *adyrensis sp. n.* p. 279 fig. Devonian northern European Russia, [SOSHKINA].
- †*Zaphrentoides ? sp.* p. 39 fig., KOSTIĆ-PODGORSKA.
- †*Zelophyllia* p. 78, *uralica sp. n.* p. 78 fig. Devonian Urals, [VAGANOVA].
- †*Zmeinogorskia gen. n.* (fam. Kodonophyllidae) p. 31, type sp. (by original designation) *bublikenkoi sp. n.* p. 32 fig. Devonian U.S.S.R., [SPASSKII] Paleont. obos. strat. Paleoz. Rudnogo Altaya 3 1960.
- †*Zonophyllum* p. 34, *parvum* p. 34 fig., [SPASSKII].
- Zooanthus pulchellus* p. 432, LEWIS.

## CTENOPHORA

*Coeloplana gonotena* var. *natalensis* var. *n.* p. 39 fig. Natal, POPLÉ.

## INCERTAE SEDIS

- †*Coelenteratella gen. n.* p. 627, type sp. (by original designation) *antiqua sp. n.* p. 627 fig. M. Cambrian Siberia, [KORDE] Dokl. Akad. Nauk S.S.S.R. 125 3 1959.
- †*Cyclomedusa* possibly an *Archaeocyathina* p. 378, *davidi* p. 378, *radiata* pp. 378, 381, GLAESSNER.
- †*Ediacara flindersi* pp. 378, 379, GLAESSNER.
- †*Lenaella gen. n.* p. 626, type sp. (by original designation) *reticulata* p. 626 fig., *longa* p. 626 fig., *sp. n.* L. Cambrian Siberia, [KORDE] Dokl. Akad. Nauk S.S.S.R. 125 3 1959.

†*Protolyella asteroides* probably = *mauwsoni*, *filamentus* p. 381, GLAESSNER.

†*Protoniobia wadesi* partim is *Cyclomedusa radiata* p. 381, GLAESSNER.

†*Spriggia* p. 388, GLAESSNER.

†*Taleana* a synonym of *Cyclomedusa*, *inflata* may be *radiata* p. 388, GLAESSNER.

†*Tribrachidium* **gen. n.** p. 389, type sp. (by original designation) *heraldicum* **sp. n.** p. 389 fig. Precambrian South Australia, GLAESSNER Rec. S. Aust. Mus. 13 3 1959.



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